



Introduction to Government Data Sources

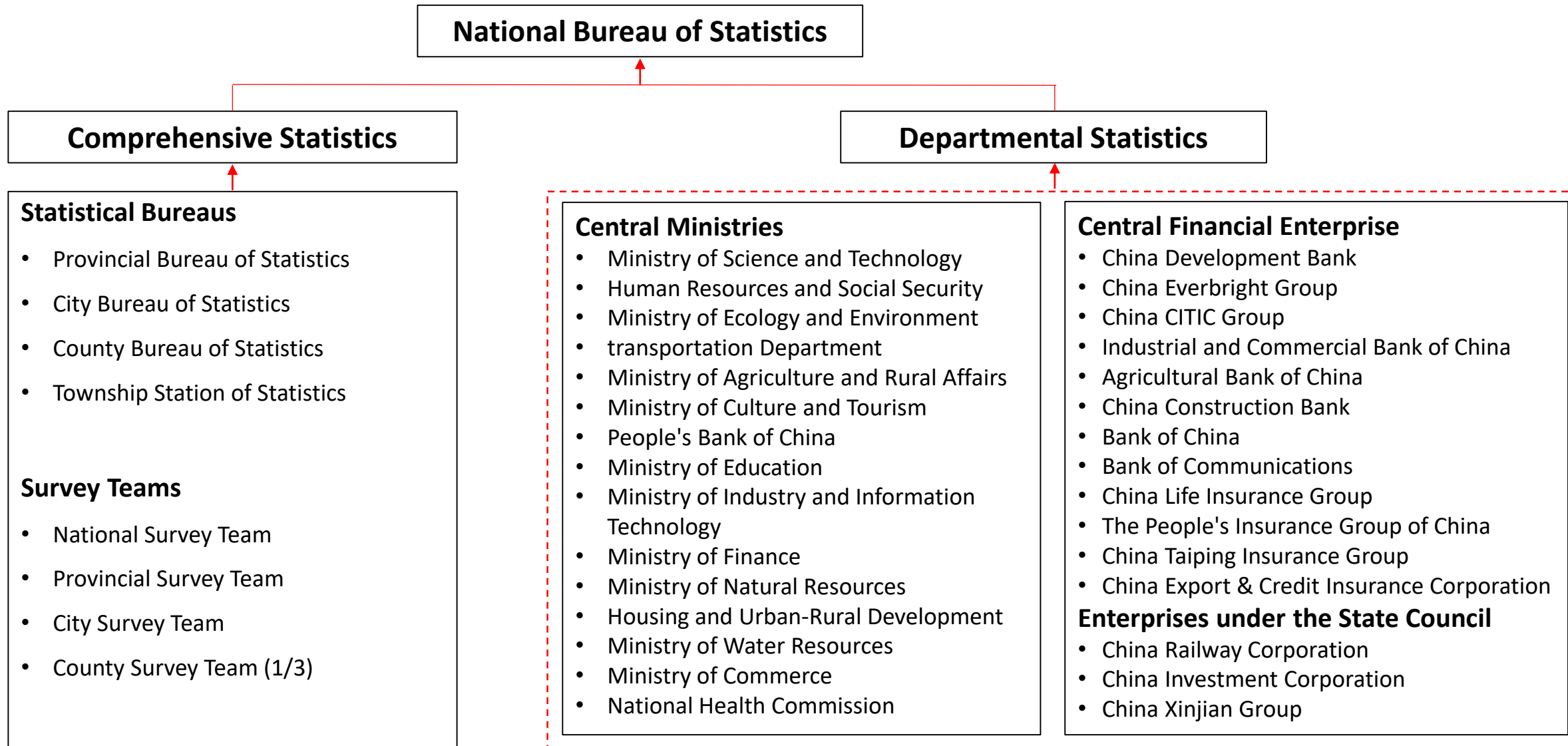
Shuming Bao
China Data Institute

Topics

- ❑ **Data sources**
 - ❑ Government Statistics
 - ❑ Population Census
 - ❑ Economic Census
- ❑ **Comparison** of difference between the US and China
- ❑ **Discussions** of Pros and cons

(I) Government Statistics

The Statistical System of China



Data Collections

Data Collections:

- Periodical surveys
- Regular surveys
- Special surveys
- Typical surveys
- Administrative records

Major Census

- Population Census
- Economic Census
- Agricultural Census

Regular surveys (Economy, society, population, environment and resources)

- National accounting
- Agriculture
- Industry
- Energy
- investment
- Construction
- Foreign trade
- Services
- Urban and rural households
- Prices
- Social Technology
- wage

Departmental Statistics

- Transportation
- Tourism
- Public Finance
- Bank and Finance
- Import and Export
- Foreign Investment
- Culture
- Education
- Health
- Technology
- Household registration
- Social development

Data Category and Definition

Index Definition: <https://www.china-data-online.com/info/jieshi.asp>

- **National Accounts**
- Population and Employment
- Investment in Fixed Assets
- Price Indices
- People's livelihood and Worker's Wage
- Government Finance and Banking
- City Survey
- Agriculture
- Industry
- Construction
- Transport, Post and Telecommunication Services
- Domestic Trade, Foreign Trade and Economic Cooperation
- Foreign Trade and Economic Cooperation
- Education and Culture
- Public Health
- Resources

GROSS DOMESTIC PRODUCT OF CHINA

- Gross domestic product of china/gross domestic product
- Gross domestic product of china/primary industry
- Gross domestic product of china/secondary industry
- Gross domestic product of china/industry
- Gross domestic product of china/construction
- Gross domestic product of china/tertiary industry
- Gross domestic product of china/transportation post and telecommunications
- Gross domestic product of china/wholesale retail & catering trade
- Gross domestic product of china/per- capita GDP

INDICES OF GROSS DOMESTIC PRODUCT OF CHINA (1978=100)

- indices of gross domestic product of china (1978=100) /gross national product
- indices of gross domestic product of china (1978=100) /gross domestic product
- indices of gross domestic product of china (1978=100) /primary industry
- indices of gross domestic product of china (1978=100) /secondary industry
- indices of gross domestic product of china (1978=100) /industry
- indices of gross domestic product of china (1978=100) /construction
- indices of gross domestic product of china (1978=100) /tertiary industry
- indices of gross domestic product of china (1978=100) /transportation post and telecommunications
- indices of gross domestic product of china (1978=100) /wholesale retail & catering trade
- indices of gross domestic product of china (1978=100) /per- capita GDP

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- Indices of gross domestic product of china/transportation post and telecommunications
- Indices of gross domestic product of china/wholesale retail & catering trade
- Indices of gross domestic product of china/per- capita GDP

GROSS DOMESTIC PRODUCT BY EXPENDITURE APPROACH OF CHINA

- Gross domestic product by expenditure approach of china/gross domestic product by expenditure approach
- Gross domestic product by expenditure approach of china/final consumption expenditure
- Gross domestic product by expenditure approach of china/household
- Gross domestic product by expenditure approach of china/government
- Gross domestic product by expenditure approach of china/gross capital formation
- Gross domestic product by expenditure approach of china/fixed capital
- Gross domestic product by expenditure approach of china/changes in inventories
- Gross domestic product by expenditure approach of china/net export of goods and services

Monthly Statistics (2006-)

National:

- National Accounts
- Industry
- Transportation and Communication
- Investment
- Domestic trade
- International trade
- Price index
- International tourism
- Banking
- Foreign investment
- Logistics and purchasing

Province:

- Industry
- Investment
- International trade
- Price index
- Banking
- Employment and wage
- Real estate

City:

- Price index
- People's Livelihood

National and Provincial Statistics (1949-)

- National Accounts
- Population and Employment
- Investment in Fixed Assets
- Price Indices
- People's livelihood and Wage
- Finance and Banking
- City Survey
- Agriculture
- Industry
- Construction
- Transport, Post and Telecommunication
- Domestic Trade
- Foreign Trade
- Education and Culture
- Public Health
- Resources

Yearly Prefecture City and County Statistics

Prefecture City Statistics

- Population
- Labor Force And Employment
- Employment Structure
- Employment By Sector
- Land Resource
- General Economy
- Agricultural Production
- Quantity Of Farm Crops Per Capita
- Industrial Enterprises
- Financial Indicators
- Investment In Fixed Assets
- Commercial Economy
- Foreign Direct Investment
- Finance And Banking
- Insurance
- Wages
- Number Of Schools
- Number Of Full-Time Teachers
- Student Enrollment
- Culture
- Public Health
- Transportation
- Postal & Telecommunications
- Water, Electricity And Gas
- Roads And Traffic
- Environment Condition

County Statistics

- Population
- Labor Force And Employment
- Land Resource
- General Economy
- Agricultural Production
- Investment In Fixed Assets
- Commercial
- Foreign Direct Investment
- Number Of Schools
- Number Of Full-Time Teachers
- Student Enrollment
- Economy

Monthly & Yearly Industrial Statistics

General Analysis on Industry

- Basic condition
- Assets and Debts
- Losses and Profits
- Economic Benefit Indicators

Output of Main Products

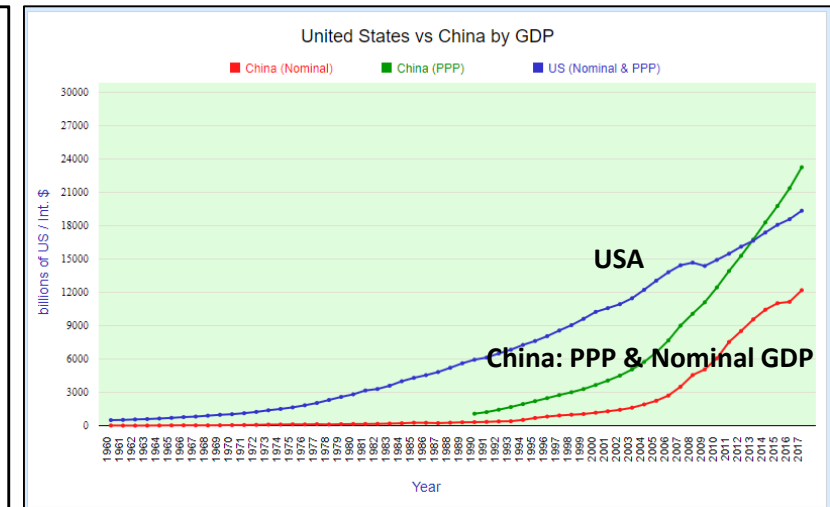
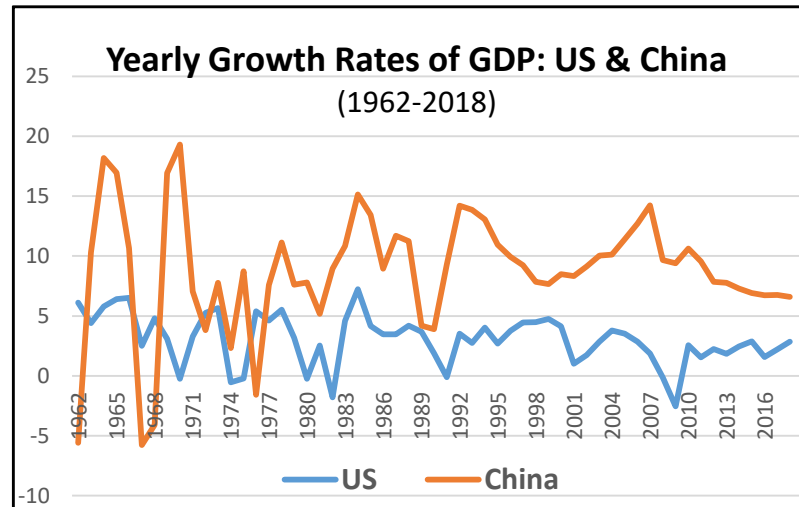
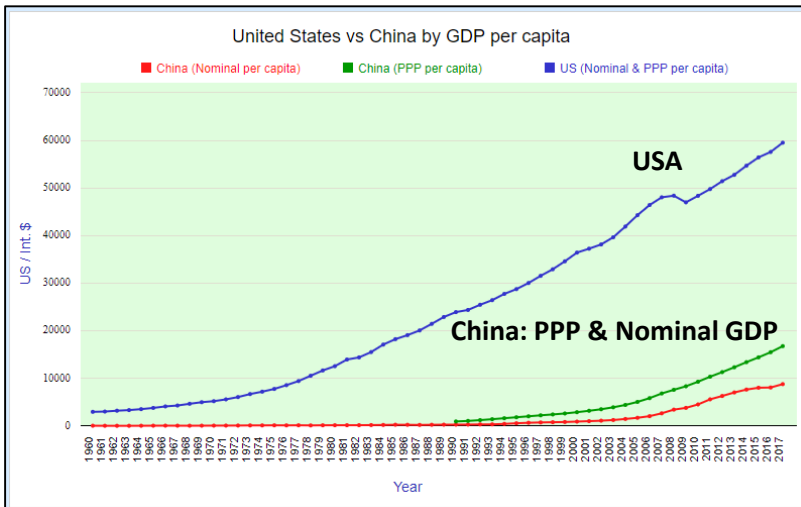
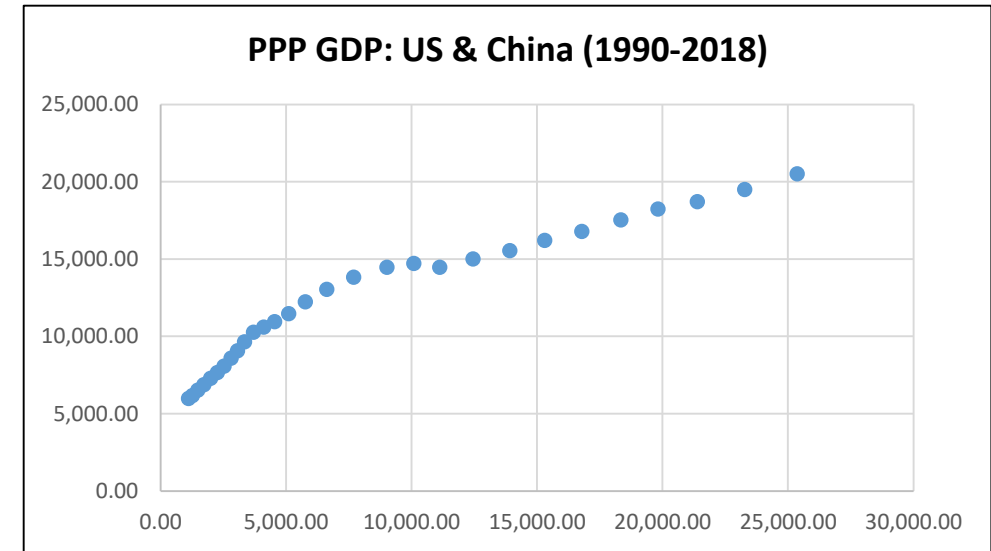
- Confection
- Quick frozen Staple Foods
- Convenient Noodles
- Dairy Product
- Liquid Milk
- milk powder
- Canned Food
- Soy
- Freezing Drinks
- Food Additives

Food Production / Basic condition						
Time	Number of Enterprises (unit)	Number of Loss-making Enterprises (unit)	Gross Industrial Output Value (at current price)		Average Number of Employees	
			accumulated to this month (1,000yuan)	Year-on-year Rise(%)	accumulated to this month(person)	Year-on-year Rise(%)
1999,1-3	3,546	1,359	21,413,615	8.03	737,235	-1.12
1999,1-4	3,647	1,406	29,600,041	6.68	730,390	-4.31
1999,1-5	3,725	1,455	37,951,876	7.68	748,240	-2.42
1999,1-6	3,721	1,482	47,086,134	9.19	755,784	-1.89
1999,1-7	3,761	1,502	54,823,608	9.7	765,316	-3.1
1999,1-8	3,766	1,511	62,523,819	9.58	776,360	-0.97
1999,1-9	3,772	1,512	71,286,349	9.32	767,279	-2.29
1999,1-10	3,769	1,488	80,613,809	8.89	765,185	-2.52
1999,1-11	3,791	1,447	88,927,748	8.71	770,287	-3
1999,1-12	3,816	1,324	98,829,639	7.91	802,209	-2.74
2000,1-2	3,462	1,068	3,233,799	22.94	702,856	1.6
2000,1-3	3,498	1,185	13,490,758	14.85	718,071	1.36
2000,1-4	3,533	1,207	1,203,322	285.31	722,806	1.27
2000,1-5	3,572	1,252	0		718,875	0.35
2000,1-6	3,594	1,256	0		719,227	-2.64
2000,1-7	3,595	1,291	0		729,772	-0.17
2000,1-8	3,612	1,288	0		723,039	-0.83
2000,1-9	3,619	1,274	77,412,640	812.78	728,079	0
2000,1-10	3,628	1,267	86,725,573	11.42	727,981	-0.35
2000,1-11	3,611	1,206	96,322,687	11.71	723,980	-1.12
2000,1-12	3,668	1,082	108,493,523	12.41	728,193	-1.15
2001,1-2	3,409	997	16,741,107	6.52	677,343	0.94
2001,1-3	3,491	1,098	26,376,379	9.69	683,625	0.97
2001,1-4	3,509	1,104	35,714,405	9.52	693,952	1.52
2001,1-5	3,534	1,102	44,994,358	9.19	696,647	-0.79
2001,1-6	3,571	1,127	55,486,726	10.17	698,744	-1.3
2001,1-7	3,599	1,146	62,675,078	8.82	689,468	0.74
2001,1-8	3,619	1,157	71,767,000	8.49	692,766	0.77
2001,1-9	3,634	1,162	82,300,029	8.92	699,814	1.29
2001,1-10	3,643	1,164	92,673,530	8.92	704,602	1.03

Difference between the US and China Statistics

Statistical Systems:

- Production Approach: Material Product Balances (MPS)
- Expenditure Approach: System of National Accounts (SNA)
- Data collection
- Data definition
- Data publication
- Data implication



Pros and Cons

Pros:

- ✓ Nationwide statistical agencies
- ✓ Integrated statistical system
- ✓ Comprehensive data coverage
- ✓ Authoritative publications

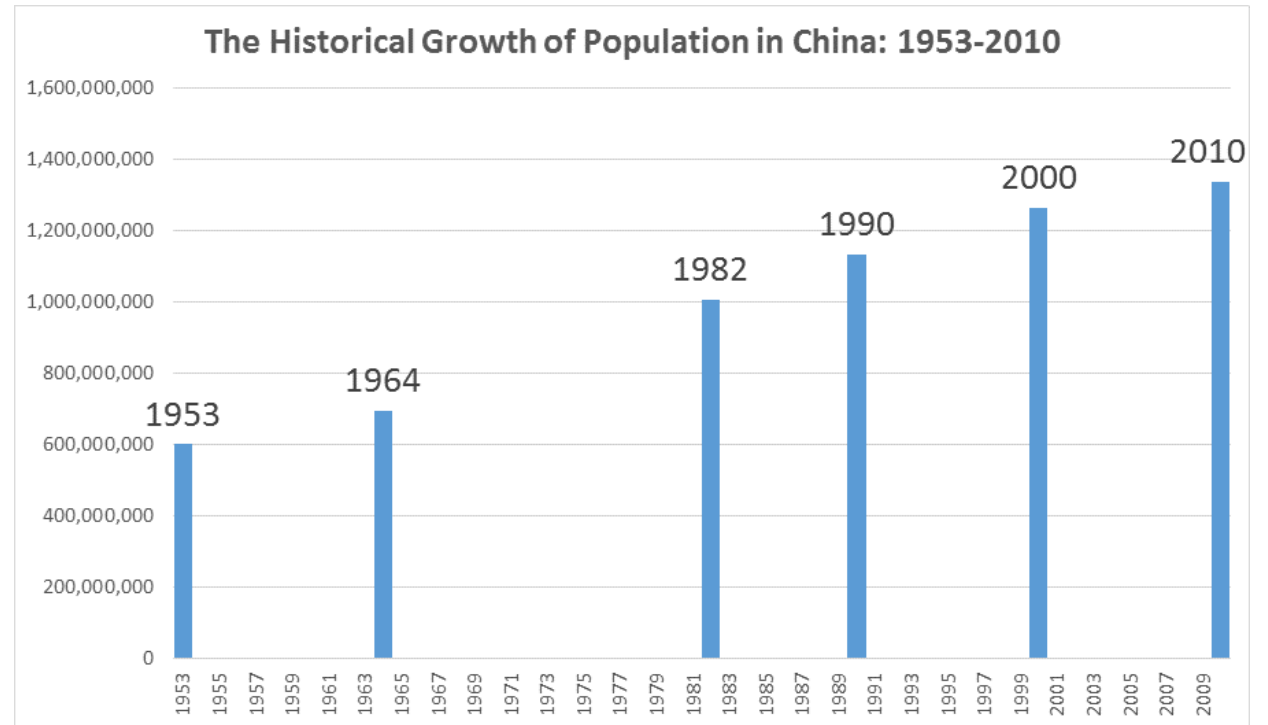
Cons:

- ✓ Slow adaption to market changes (economic reforms, industrial transition, urban-rural development)
- ✓ Possible interference with administrative actions , especially in the short term
- ✓ Possible changes in data definitions without well-defined documents
- ✓ Lagged release of information

(II) Population Census Data

The Population Census of China

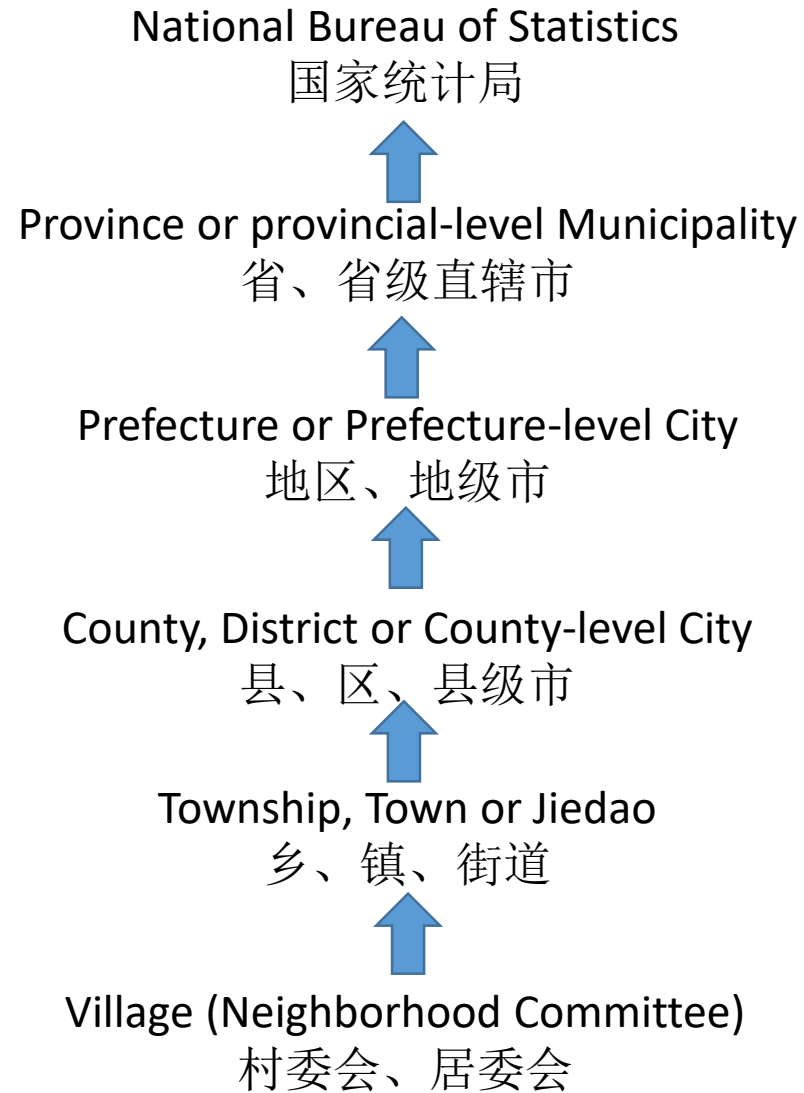
- The earliest population Census in China: 2 AD
(西汉汉平帝元始二年,公元2年)
- Recent censuses:
 - The 1st Census: July 1, 1953
 - The 2nd Census: July 1, 1964
 - The 3rd Census: July 1, 1982
 - The 4th Census: July 1, 1990
 - The 5th Census: Nov 1, 2000
 - The 6th Census: Nov 1, 2010



Population Census Data Collection

- **Census household survey forms (1990, 2000 & 2010):** Short Form (100%), Long Form (about 10%)
- **Date and Time:** 0:00AM of November 1, 2000/2010
- **Data coverage:** The population in the publication do not include People's Army.
- **Data quality:** The post-census sample survey indicates an undercount of 0.12% in 2010 Census.
- **Resident definition:** All permanent residents who have
 - (1) Chinese **citizenships** and
 - (2) **Permanent living places** in Mainland China.

The Flow Charts of Data Reporting



Census Data Publications by NBS

- ❑ National Census Bulletin
- ❑ Population Census Data Assemblies (nation, province, city and county)
 - China Population Data Assemblies
 - Province Population Data Assemblies
 - China Population Data by Counties
 - China Population Data by Xiang, Zhen and Jiedao
- ❑ Population 1% Sampling Report

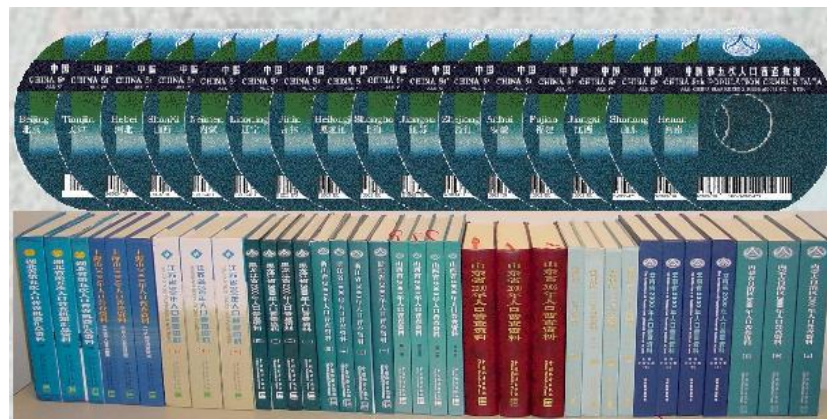
Census Data Assemblies by China Data Institute

❑ The Complete Collection of China 2000 Provincial Population Census Data Assembly

This CD includes 32 national and provincial population Census data assembly with about 14,200 electronic tables in Excel files from the 5th China population Census. The data is aggregated at national, provincial, city, city district and county levels.

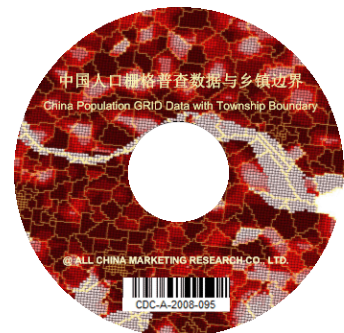
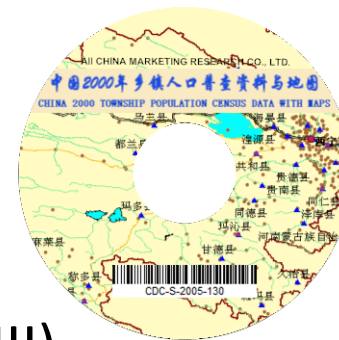
❑ The Complete Collection of China 2000 County Population Census Data Assembly

This collection includes 2,876 county and urban district population Census data assemblies with more than 330,000 electronic tables in Excel files from the 5th China population Census. The data is aggregated at city district, county and township levels.



Census Data Maps by China Data Institute

- ❑ 2000 China Province Population Census Data with GIS Maps
- ❑ 2000 China City Population Census Data with GIS Maps (III)
- ❑ 2000 China County Population Census Data with GIS Maps(III)
- ❑ 2000 China Township Population Census Data with GIS Maps
- ❑ 2010 China Province Population Census Data with GIS Maps
- ❑ 2010 China City Population Census Data with GIS Maps (III)
- ❑ 2010 China County Population Census Data with GIS Maps(III)
- ❑ 2010 China Township Population Census Data with GIS Maps
- ❑ 2000-2010 China Province Population Census Data with GIS Maps
- ❑ 2000-2010 China City Population Census Data with GIS Maps (III)
- ❑ 2000-2010 China County Population Census Data with GIS Maps (III)
- ❑ Historical China County Population Census Data with GIS Maps(1953-2000)
- ❑ Historical China County County Census Data with GIS Maps(1953-2000)



Population Census Data with GIS Maps

> 2,000 demographic variables in population Census

Geographical Levels:

Country



Province



Prefecture



County



Township



1 sq km Grid

Data Categories:

- S-1 General Information
- S-2 Nationalities
- S-3 Age
- S-4 Education
- S-5 Households
- S-6 Deaths
- S-7 Migration
- S-8 Housing
- L-1 General Information
- L-2 Nationality
- L-3 Education
- L-4 Industries and Occupations
- L-5 Marriage
- L-6 Fertility
- L-7 Migration
- L-8 Housing

Base Map

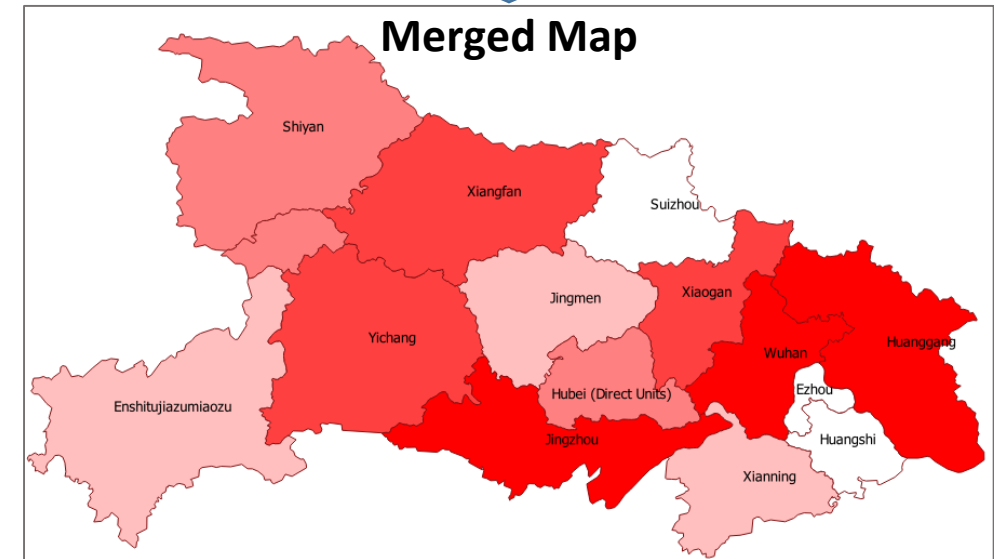


Census Data

ID	Province	Prefecture	County	City	City ID	...
174	湖北	襄阳市	襄阳市	襄阳市	420100000	...
175	湖北	襄阳市	襄阳市	襄阳市	420100000	...
176	湖北	襄阳市	襄阳市	襄阳市	420100000	...
177	湖北	襄阳市	襄阳市	襄阳市	420100000	...
178	湖北	襄阳市	襄阳市	襄阳市	420100000	...
179	湖北	襄阳市	襄阳市	襄阳市	420100000	...
180	湖北	襄阳市	襄阳市	襄阳市	420100000	...
181	湖北	襄阳市	襄阳市	襄阳市	420100000	...
182	湖北	襄阳市	襄阳市	襄阳市	420100000	...
183	湖北	襄阳市	襄阳市	襄阳市	420100000	...
184	湖北	襄阳市	襄阳市	襄阳市	420100000	...
185	湖北	襄阳市	襄阳市	襄阳市	420100000	...
186	湖北	襄阳市	襄阳市	襄阳市	420100000	...
187	湖北	襄阳市	襄阳市	襄阳市	420100000	...
188	湖北	襄阳市	襄阳市	襄阳市	420100000	...
189	湖北	襄阳市	襄阳市	襄阳市	420100000	...
190	湖北	襄阳市	襄阳市	襄阳市	420100000	...
191	湖北	襄阳市	襄阳市	襄阳市	420100000	...
192	湖北	襄阳市	襄阳市	襄阳市	420100000	...
193	湖北	襄阳市	襄阳市	襄阳市	420100000	...
194	湖北	襄阳市	襄阳市	襄阳市	420100000	...
195	湖北	襄阳市	襄阳市	襄阳市	420100000	...



Merged Map



Difference from the Publications by NBS and Others?

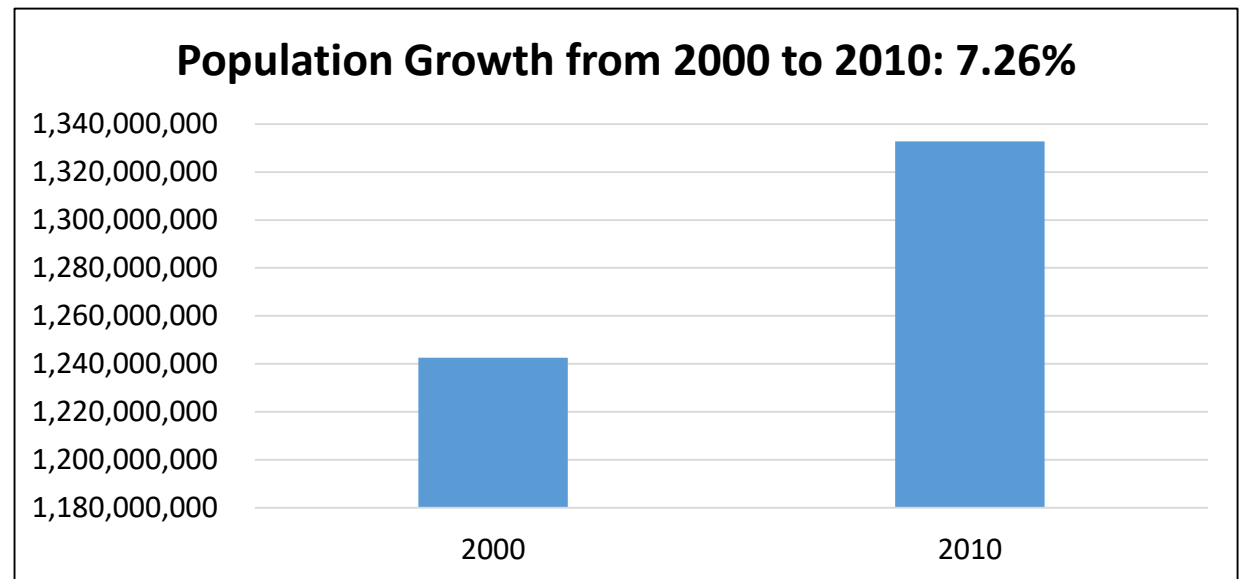
- Electronic data directly from the National Bureau of Statistics with official authorization
- Bilingual in Chinese and English
- Comparable data across regions (province, city and county) and years (2000 and 2010)
- Complete data coverage for all regions
- Integration with GIS maps for spatial data analysis and visualization

Permanent Population

- Reside in current place with **local household registration**
- Resided in the current place for **more than 6 months** without local household registration
- Resided in the current place for **less than 6 months** but have been away from the original places of their household registration for more than 6 months.
- Live in the current place while waiting for **local household registration to be settled**
- **Work or study abroad** during the census with local household registration

Year	Population
2000	1,242,612,226
2010	1,332,810,869

Source: <http://china-data-online.com>



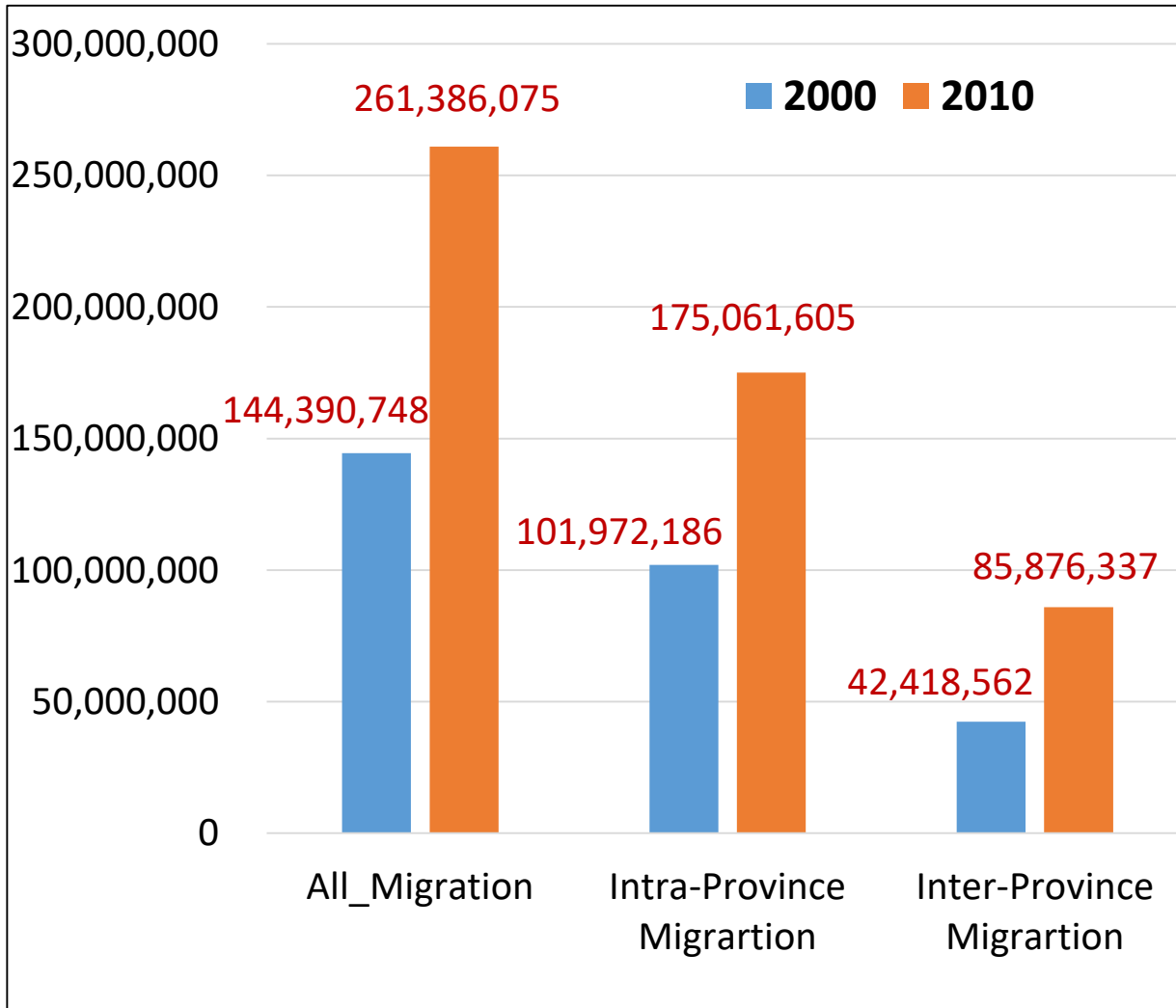
Migration by Residence and Household Registration

Migration by current residence (more than 6 months and less than 5 years) and current place of household registration (short form: A701)

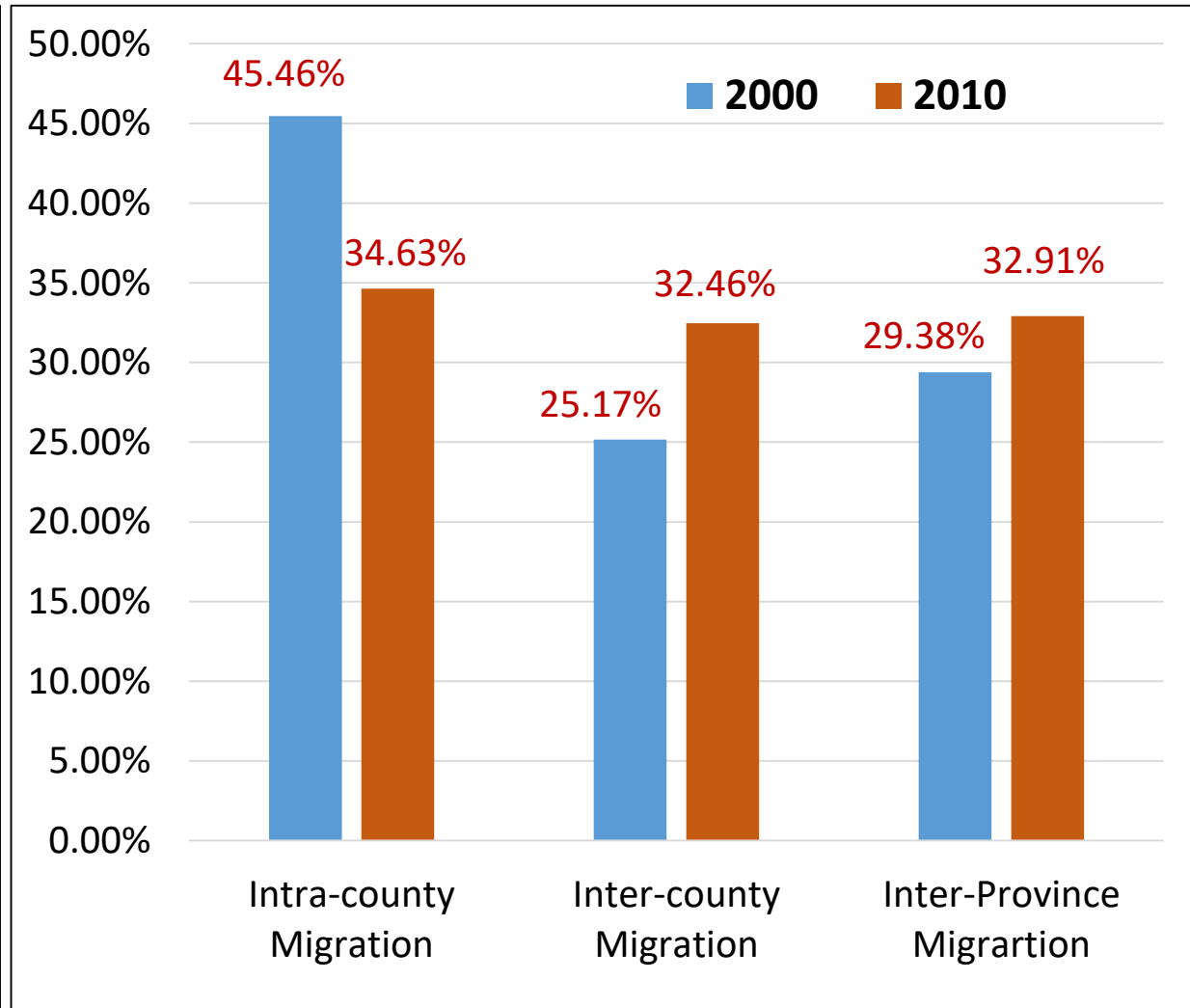
- From other townships of this county/city
 - From other towns of this county/city
 - From other Jiedaos of this county/city
 - From other townships of this urban district
 - From other towns of this urban district
 - From other Jiedaos of this urban district
 - From other counties or cities of this province
 - From other provinces
-
- The diagram uses red lines to group the migration categories. A large red bracket on the right side groups the first six items (From other townships of this county/city, From other towns of this county/city, From other Jiedaos of this county/city, From other townships of this urban district, From other towns of this urban district, and From other Jiedaos of this urban district) under the label "Intra-County or urban district". A second, larger red bracket on the right side groups these six items plus the seventh item (From other counties or cities of this province) under the label "Intra-Province". A red arrow points from the eighth item (From other provinces) to the label "Inter-Province".

Intra and Inter-Regional Migration: 2000-2010

Changes in migration: 2000 and 2010 (person)



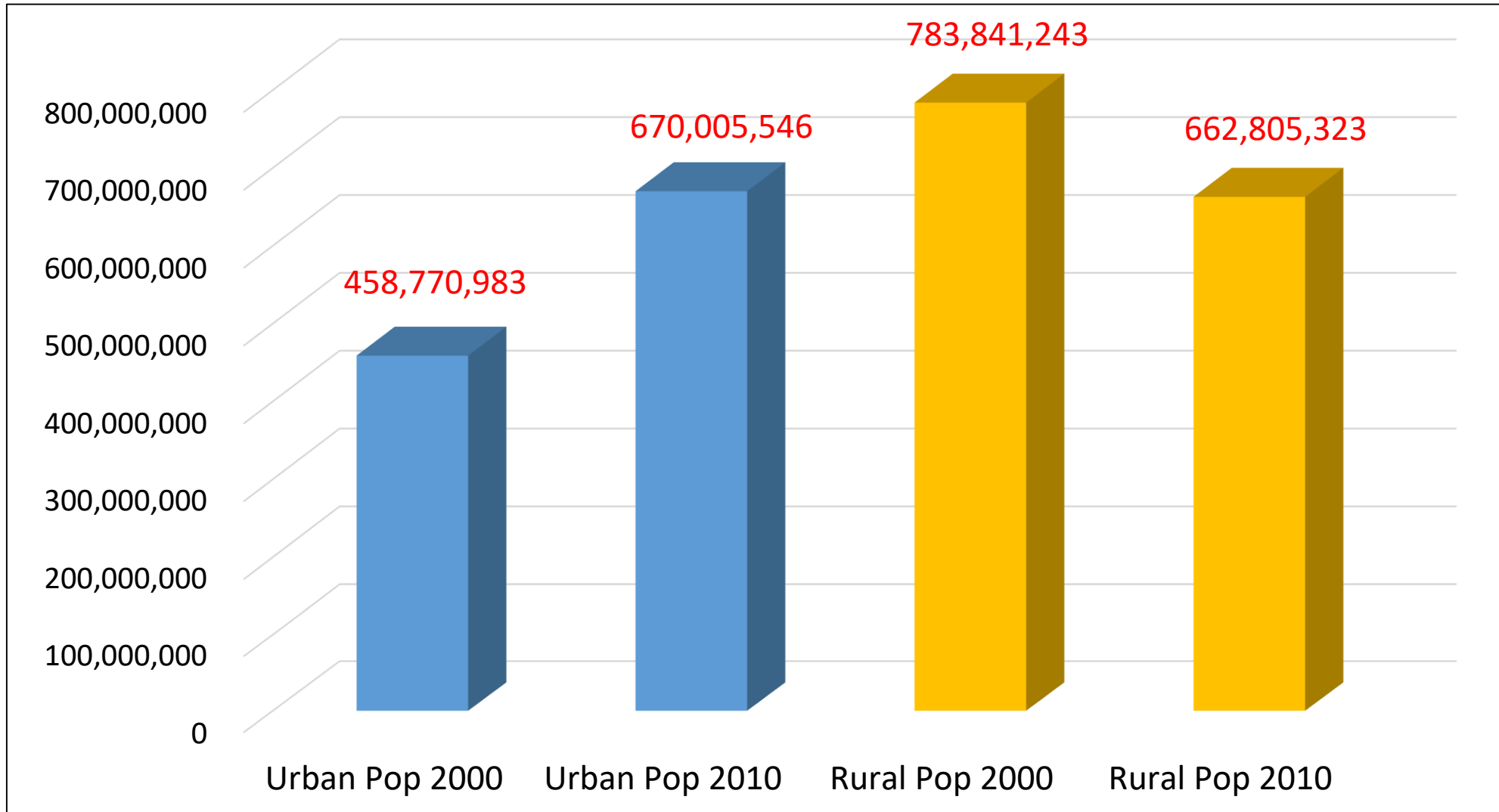
Composition of migration: 2000 and 2010 (%)



Urban and Rural Population

100	Urban 城镇
110	City 城市
111	Urban with Districts (>1500 persons/sq km) 设区市的市区
112	Urban without Districts 不设区市的市区
120	Town 镇
121	The capital town of county 县及县级以上人民政府所在建制镇的镇区
122	Other towns 其他建制镇的镇区
200	Rural 乡村
210	Rural Townships 集镇
220	Villages 农村
	Others (mines, tourist areas, development zones, etc.)
	Urban if more than 3000 population
	Rural if less than 3000 population

Urban and Rural Population (2000-2010)



Source: <http://china-data-online.com>

Difference between the US and China Census Data

❑ Data collection

US: Mailing in forms primarily

China: household surveys by local census teams and e-form submission

❑ Data definition

US: current residents in the U.S. and the U.S. federally affiliated overseas population

China: current residents with Chinese citizenship and those Chinese citizens working or studying abroad

❑ Data publications

US: Online e-publications primarily

China: Paper publications primarily

❑ Data Coverage

US: Household income

China: No household income

❑ Data Implications

US: Migration refer to moves that cross a boundary, such as a county or state, and is either domestic migration or international migration

China: Migration refer to moves that cross a boundary, such as a township, county or province

Pros and Cons

Pros:

- ✓ Nationwide statistical agencies
- ✓ Comprehensive data coverage
- ✓ Authoritative publications

Cons:

- ✓ Most data are in paper publications only
- ✓ Most publications are in Chinese only
- ✓ No income data in household surveys
- ✓ No geo-reference data similar to US TIGER/Line data
(Topologically Integrated Geographic Encoding and Referencing)
- ✓ **Inconsistent and Incomplete census tables across regions**

Missing County Data in the 2010 Provincial Census Data Assemblies

1 各省《2010年人口普查资料》区县级人口普查数据指标比较统计

2

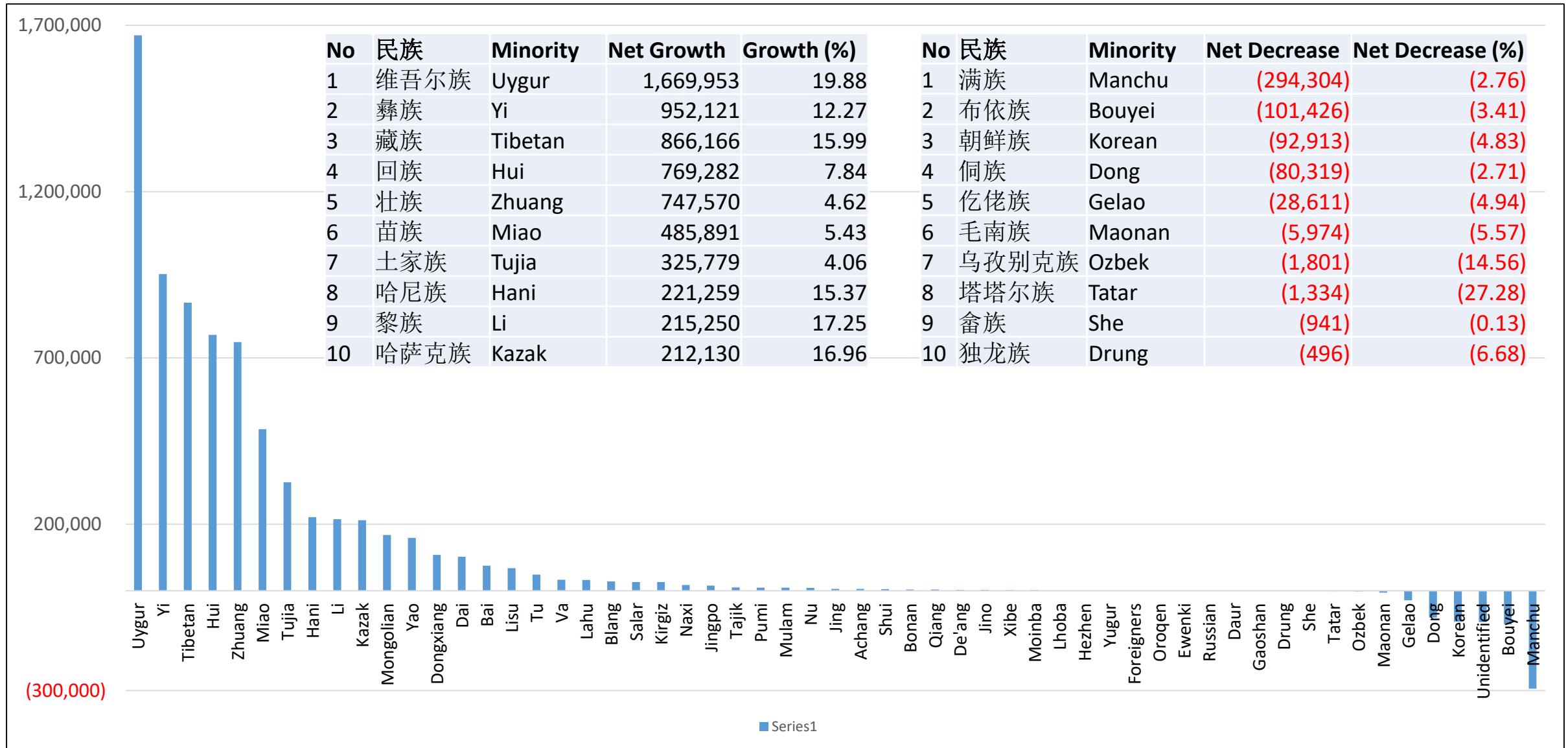
3 短表

4 地区	表1-1	表1-2	表1-3	表1-4	表1-5	表1-6	表1-7	表1-8	表1-9	表1-10	表1-11	表1-12	表1-13	表1-14	表3-2	表3-3	表5-2	表5-3	表5-4	表5-5	表5-6	表6-1	表6-2	表6-3	表7-1	表7-3	表7-4	表7-6	表7-7	表7-9	表7-10	表8-1	表8-2	表8-3		
5 北京市																																				
6 天津市																																				
7 河北省																																				
8 山西省																																				
9 内蒙古																																				
10 吉林省																																				
11 黑龙江省																																				
12 上海市																																				
13 江苏省																																				
14 浙江省																																				
15 安徽省																																				
16 福建省																																				
17 江西省																																				
18 河南省																																				
19 湖北省																																				
20 湖南省																																				
21 广东省																																				
22 广西壮族自治区																																				
23 海南省																																				
24 重庆市																																				
25 贵州省																																				
26 云南省																																				
27 陕西省																																				
28 甘肃省																																				
29 青海省																																				
30 宁夏回族自治区																																				
31 新疆维吾尔自治区																																				
32 西藏自治区																																				
33 港澳台																																				
34 新疆																																				
35 湖南省																																				
36 四川省																																				
37 长表																																				
38 地区	表1-1	表1-2	表1-3	表4-1	表4-4	表4-7	表4-9	表4-10	表4-14	表4-17	表4-20	表5-1	表5-1	表5-4	表5-5	表5-8	表5-11	表7-2	表7-3	表7-4	表7-5	表7-6	表7-7	表7-8	表8-1	表8-3	表8-6	表9-1	表9-2	表9-3	表9-4	表9-5	表9-6			
39 北京市																																				
40 天津市																																				
41 河北省																																				
42 山西省																																				
43 内蒙古																																				
44 吉林省																																				
45 黑龙江省																																				
46 上海市																																				
47 江苏省																																				
48 浙江省																																				
49 安徽省																																				
50 福建省																																				
51 江西省																																				
52 河南省																																				
53 湖北省																																				
54 湖南省																																				
55 广东省																																				
56 广西壮族自治区																																				
57 海南省																																				
58 重庆市																																				
59 贵州省																																				
60 云南省																																				
61 陕西省																																				
62 甘肃省																																				
63 青海省																																				
64 宁夏回族自治区																																				
65 新疆维吾尔自治区																																				
66 西藏自治区																																				
67 新疆																																				
68 湖南省																																				
69 四川省																																				

Note: The yellow color indicates missing county data in the 2010 Provincial Census Data Assemblies

Changes in Population by Ethnic Groups (2000-2010)

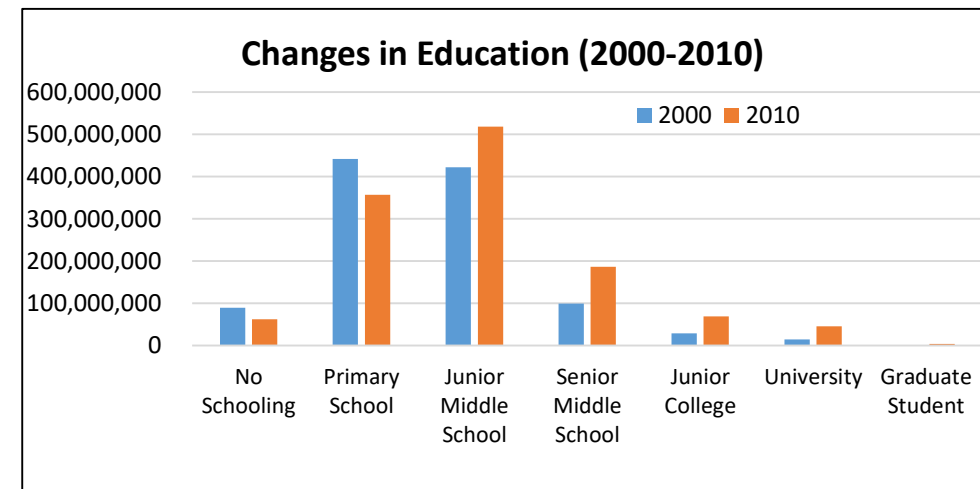
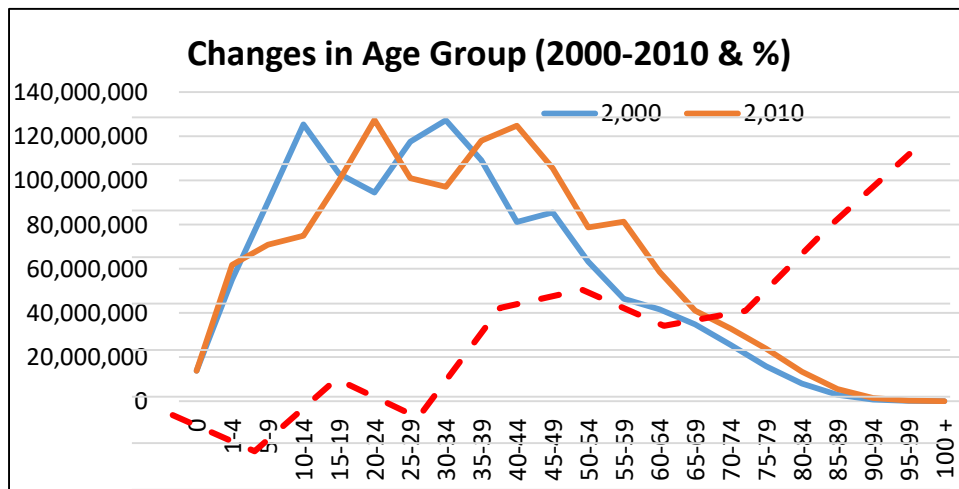
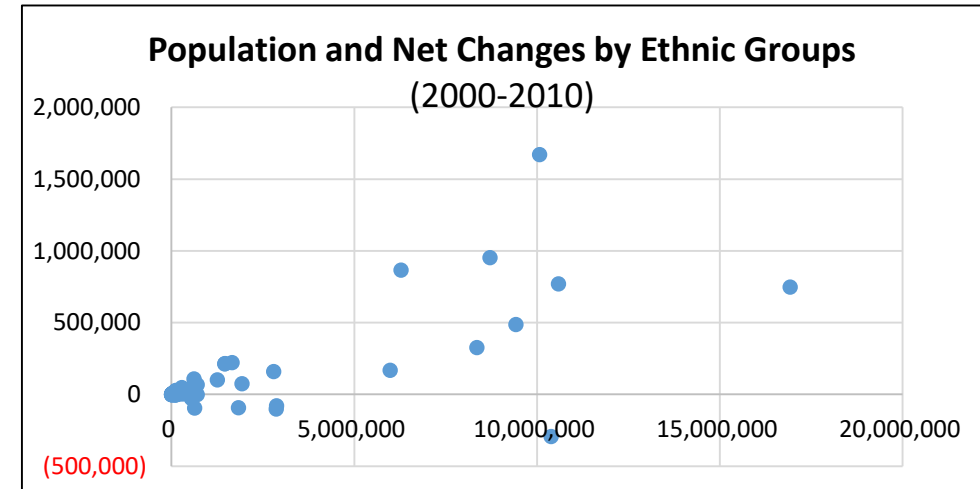
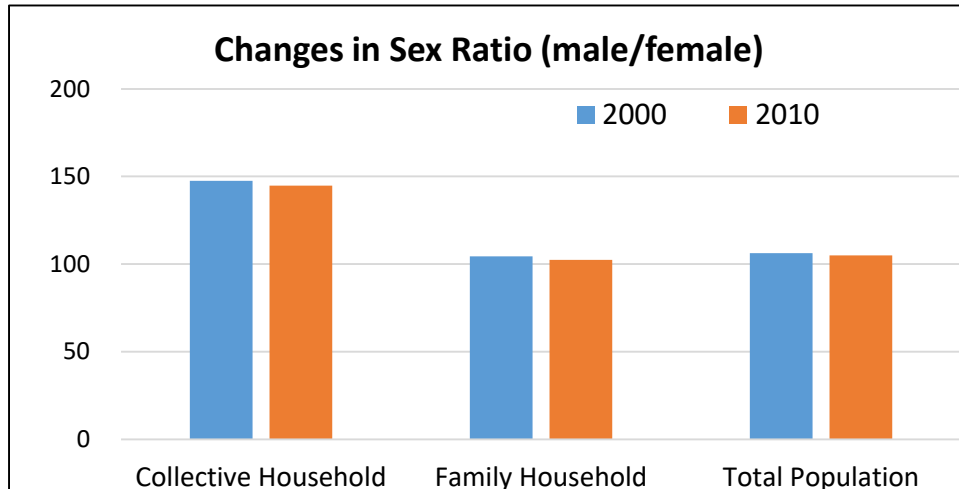
Source: <http://china-data-online.com>



Changes in the Demographic Structure of China

Source: <http://china-data-online.com>

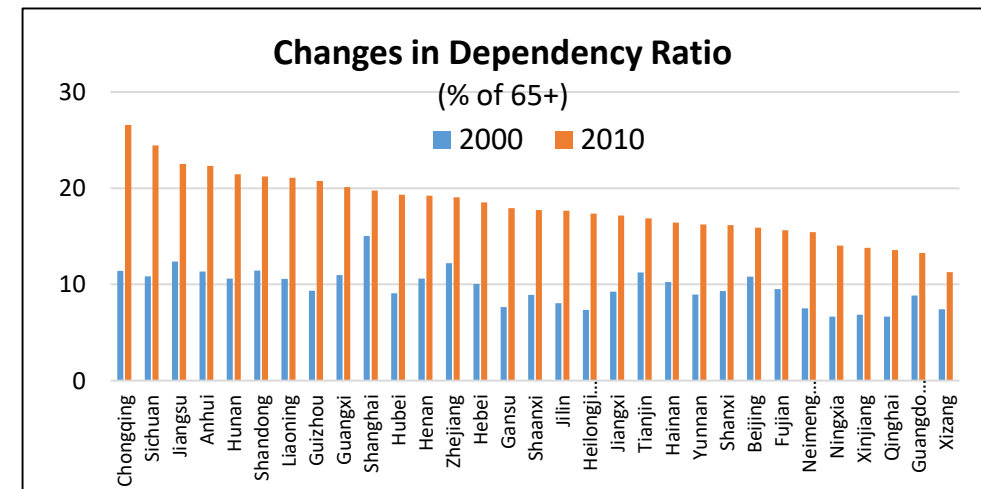
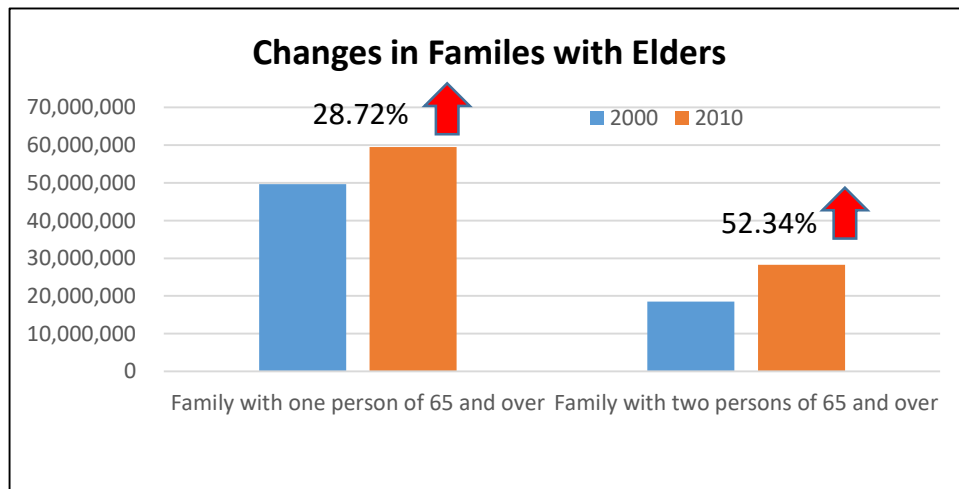
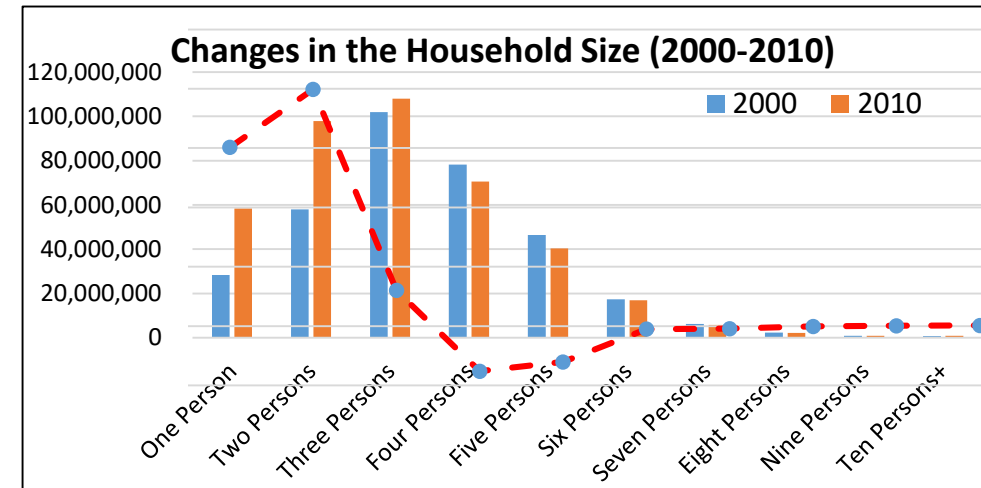
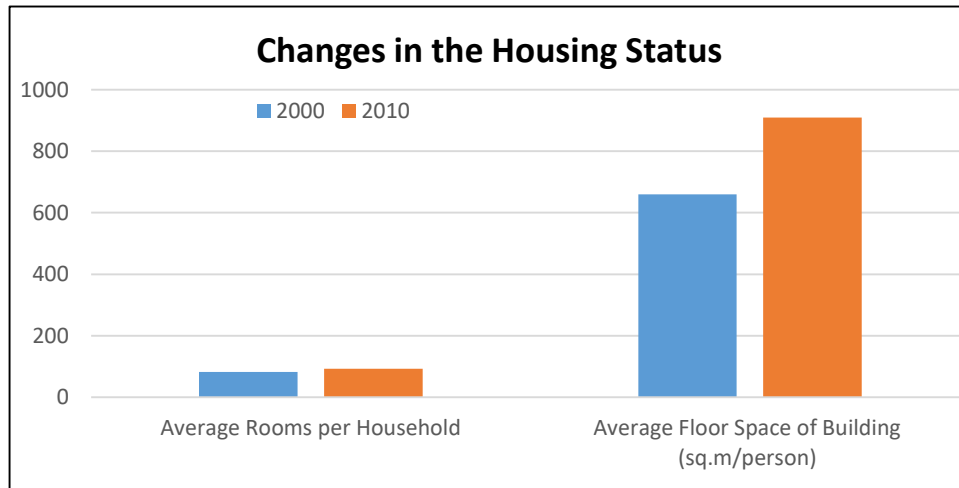
- The male to female ratio keeps declining
- The ethnic groups with larger size are increasing while the ethnic groups with small size tend to shrink
- The elder group are increasing while the young groups are declining
- The education of general population are increasing while the student size of primary schools are declining



Changes in the Family and Housing Structure of China

Source: <http://china-data-online.com>

- There is significant improvement in the average living space per person
- The family size keeps shrinking
- There is an significant increase in the % of families with multiple elders
- There is an significant increase in the elder dependency ratio



(III) Economic Census Data

The China Economic Census

- The earliest economic Census in China: **Da Yu**, 2000 BC
- Recent economic censuses:
 - The 1st Census: 2004
 - The 2nd Census: 2008
 - The 3rd Census: 2013
 - The 4th Census: 2018
- Business Units:
 - Legal Unit 法人单位
 - Enterprise 企业法人
 - Government 机关、事业法人
 - Non-profit org 社会团体法人
 - Economic Unit 产业活动单位
 - Manufacture 第二产业
 - Service 第三产业
 - Private 个体经营户
 - Manufacture 第二产业
 - Service 第三产业



Business Unit Classification

2004, 2008, 2013, 2018 Business and Private Units 单位数与个体经营户数

	2004		2008		2013		2018	
	(in 10,000)	(%)	(in 10,000)	(%)	(in 10,000)	(%)	(in 10,000)	(%)
1. Legal Unit 法人单位	516.9	100	709.9	100	1085.7	100	2178.9	100.0
Enterprise 企业法人	325	62.9	495.9	69.9	820.8	75.6	1857	85.2
Government 机关、事业法人	90	17.4	95.9	13.5	103.7	9.6	107.5	4.9
Non-profit org 社会团体法人	101.9	19.7	118.1	16.6	161.1	14.8	30.5	1.4
Others 其他法人							183.9	8.4
2. Economic Unit 产业活动单位	682.4	100	886.4	100	1303.5	100	2455	100.0
Manufacture 第二产业	167.5	24.6	230	25.9	287.5	22.1	484.1	19.7
Service 第三产业	514.9	75.4	656.4	74.1	1015.9	77.9	1970.9	80.3
3. Private 个体经营户	3921.6	100	2873.7	100	3279.1	100	6295.9	100.0
Manufacture 第二产业	588.7	15	253.8	8.8	188.3	5.7	732.3	11.6
Service 第三产业	3332.9	85	2619.9	91.2	3090.8	94.3	5563.6	88.4

Industrial Classification

行业分类	Industrial Classification
1. 农、林、牧、渔业	1. Farming, Forestry, Animal Husbandry and Fishery
2. 采矿业	2. Mining and Quarrying
3. 制造业	3. Manufacturing
4. 电力、燃气及水的生产和供应业	4. Production and Distribution of Electric Power, Gas and Water
5. 建筑业	5. Construction
6. 交通运输、仓储和邮政业	6. Transport, Storage and Post
7. 信息传输、计算机服务和软件业	7. Information Transmission, Computer Services and Software
8. 批发和零售业	8. Wholesale and Retail Trade
9. 住宿和餐饮业	9. Hotel and Restaurants
10. 金融业	10. Financial Intermediation
11. 房地产业	11. Real Estate
12. 科学研究、技术服务和地质勘查业	12. Scientific Research, Technical Service and Geologic Prospecting
13. 水利、环境和公共设施管理业	13. Management of Water Conservancy, Environ. and Public Facilities
14. 居民服务和其他服务业	14. Services to Households and Other Services
15. 教育	15. Education
16. 卫生、社会保障和社会福利业	16. Health, Social Security and Social Welfare
17. 文化、体育和娱乐业	17. Culture, Sports and Entertainment
18. 公共管理和社会组织	18. Public Management and Social Organization

Business Ownership

所有制类型	Ownership
1. 国有企业	State-Owned
2. 集体企业	Collective-Owned
3. 股份合作企业	Share Holding
4. 国有联营企业	State-Owned Joint
5. 集体联营企业	Collective-Owned Joint
6. 国有集体联营企业	State and Collective-Owned Joint
7. 其他联营企业	Other Joint
8. 国有独资公司	State-own only
9. 其他有限责任公司	Other Limited
10. 股份有限公司	Share Holding Limited
11. 私营独资企业	Private
12. 私营合伙企业	Private Partners
13. 私营有限责任公司	Private Limited
14. 私营股份有限公司	Private Share Holding
15. 其他内资企业	Other Domestic Funded
16. 合资经营企业(港澳台)	Joint Venture (Hongkong, Macao, Taiwan)
17. 合作经营企业(港澳台)	Joint Operation (Hongkong, Macao, Taiwan)
18. 港澳台商独资企业	Foreign Owned by Hongkong, Macao, or Taiwan
19. 港澳台商投资股份公司	Share Holding Limited (Hongkong, Macao, Taiwan)
20. 中外合资经营企业	Joint Venture
21. 中外合作经营企业	Joint Operation
22. 外资(独资)企业	Foreign Owned Only
23. 外商投资股份有限公司	FDI Share Holding Limited

Employment and Revenue

职工人数规模

Employment

(in person)

1

1-19

20-49

50-99

100-499

500-999

1000-4999

5000-29999

30000-49999

50000+

收入规模

Revenue

(in 10,000 Yuan)

0-30

30---50

50---100

100--300

300--500

500--1000

1000-3000

3000-5000

5000-10000

10000-30000

30000-50000

50000-100000

100000-150000

150000-200000

200000 and over

Economic Census Data Publications by NBS

- National Census Bulletin
经济普查主要数据公报
- Economic Census Yearbook (nation, province, city)
经济普查年鉴
 - China Economic Census Yearbook
中国经济普查年鉴
 - Regional Economic Census Yearbook
地方（省、市）经济普查年鉴



Economic Census Data with GIS Maps

Released by China Data Institute

□ GIS based data product series:

- 1995 Industrial Census Data with GIS Maps
- 2001 Basic Census Data with GIS Maps
- 2004 Economic Census Data with GIS Maps
- 2008 Economic Census Data with GIS Maps
- 2013 Economic Census Data with GIS Maps
- 2018 Economic Census Data with GIS Maps

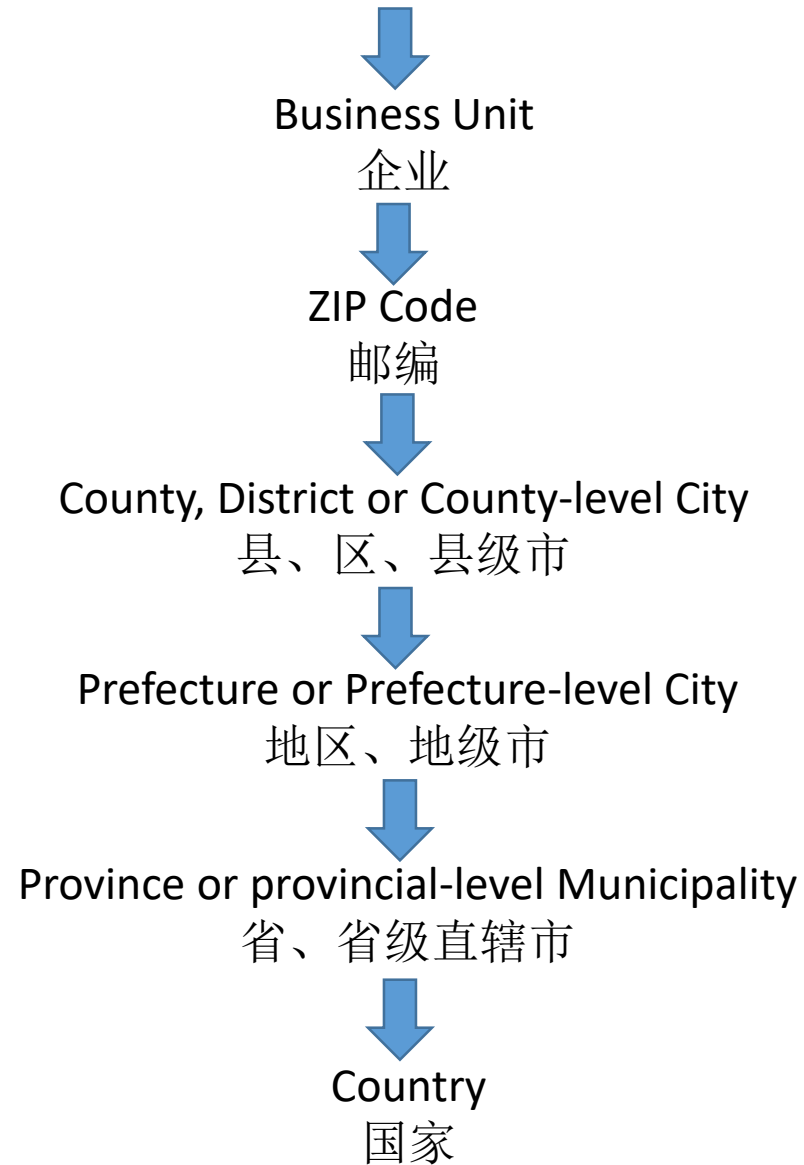
□ Available at different administrative levels:

- Province (boundary)
- Prefecture city (boundary)
- County and district (boundary)
- Postcode (point)

□ Atlas of China by Industries:

- about 7 million firm level records
- georeferenced to postcode locations

The Flow Charts of Economic Census Data Aggregation



Economic Census Data with GIS Maps

> 1,000 variables in Economic Census

Geographical Levels:

Country

|

Province

|

Prefecture

|

County

|

Postcode

Code of city	The cultivation of cereal
Chinese name of City	The cultivation of tubers
English name of City	The cultivation of Oil Crops
Two digit code of Province in number	The cultivation of Bean
Chinese name of Province	The cultivation of Cotton
English name of Province	The cultivation of Fiber Crops
	The cultivation of Sugar Crops
Total Industrial Units	The cultivation of Tobacco
State-Owned	The cultivation of Other Crops
Collective-Owned	The cultivation of vegetables
Share Holding	Flowers cultivation
State-Owned Joint	Other Gardening Crops cultivation
Collective-Owned Joint	Fruits and nuts cultivation
State and Collective-Owned Joint	Tea and other drink crops
Other Joint	spice crops
State-own only	Chinese Medicinal Materials
Other Limited	Breeding and seeding
Share Holding Limited	Afforestation
Private	Forest cultivation and management
Private Partners	Wood logging and Transportation
Private Limited	Gathering of Forest Products
Private Share Holding	Livestock raising
Other Domestic Funded	Hog raising
Joint Venture (Hongkong, Macao, Taiwan)	Poultry raising
Joint Operation (Hongkong, Macao, Taiwan)	Others livestock
Foreign Owned by Hongkong, Macao, or Taiwan	Mariculture
Share Holding Limited (Hongkong, Macao, Taiwan)	Ocean fishing
Joint Venture	Inland aquaculture
Joint Operation	Inland fishing
Foreign Owned Only	Irrigation service
FDI Share Holding Limited	Farm Products Original Processing Services

Business Records with GIS Maps

> 7 million firm level records

Index	指标说明
Business ID	企业ID
Chinese name	企业中文名称
English name	企业英文名称
Chief Executive Officer	企业CEO中文姓名
Address Code	企业地址代码
Address in Chinese	企业地址中文名称
Address in English	企业地址英文名称
Area number	企业所在区号
Phone number	企业电话号码
Postcode	企业原始邮编
Primary products in Chinese	企业主要产品中文名称
Primary products in English	企业主要产品英文名称
Ownership code	企业经济类型代码
Ownership type in Chinese	企业经济类型中文名称
Ownership type in English	企业经济类型英文名称
Starting year	企业开业时间
Revenue range code	企业营业收入范围代码
Revenue range in Chinese	企业营业收入范围中文名称
Revenue range in English	企业营业收入范围英文名称

Index	指标说明
Employee scale code	企业职工人数规模代码
Employee scale in Chinese	企业职工人数规模中文名称
Employee scale in English	企业职工人数规模英文名称
Province code	企业所在省代码
Province Chinese name	企业所在地址省中文名称
Province English name	企业所在地址省英文名称
City code	企业所在市代码
City Chinese name	企业所在地址市中文名称
City English name	企业所在地址市英文名称
County code	企业所在县代码
County Chinese name	企业所在地址县中文名称
County English name	企业所在地址县英文名称
Township code	企业所在乡镇代码
Township Chinese name	企业所在地址乡镇中文名称
Township English name	企业所在地址乡镇英文名称
Postcode in 2004	企业2004年邮编
X coordinate	企业所在位置的经度
Y coordinate	企业所在位置的纬度

Economic Census Data With GIS Maps

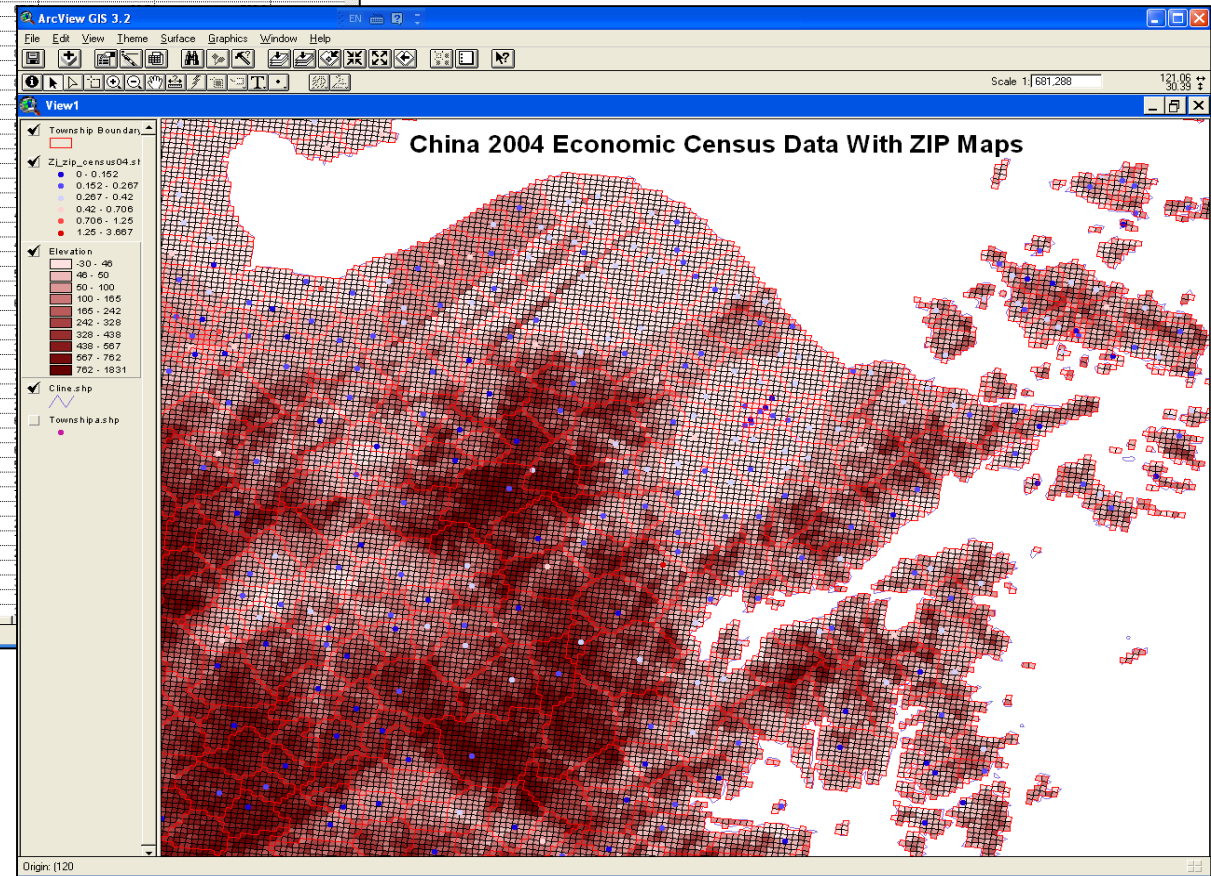
ArcView GIS 3.2

File Edit Table Field Window Help

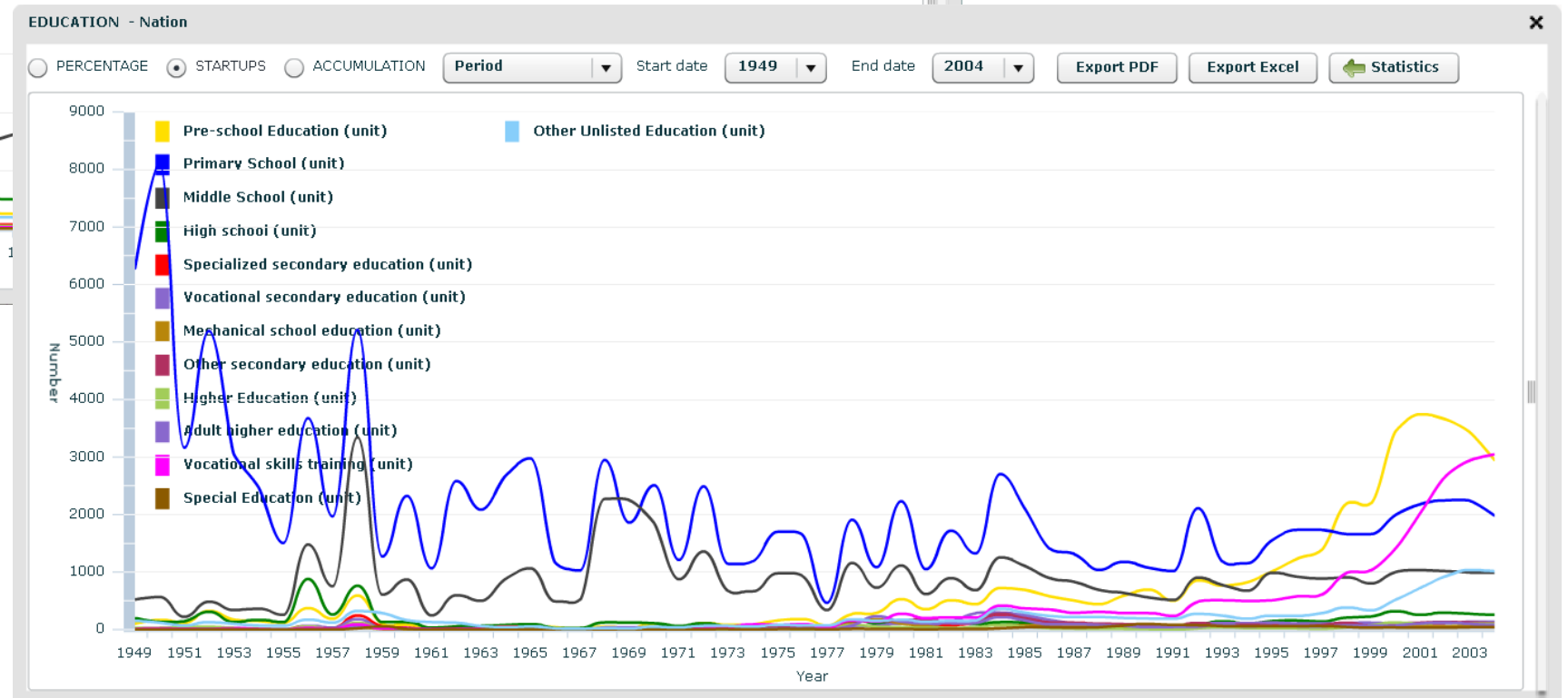
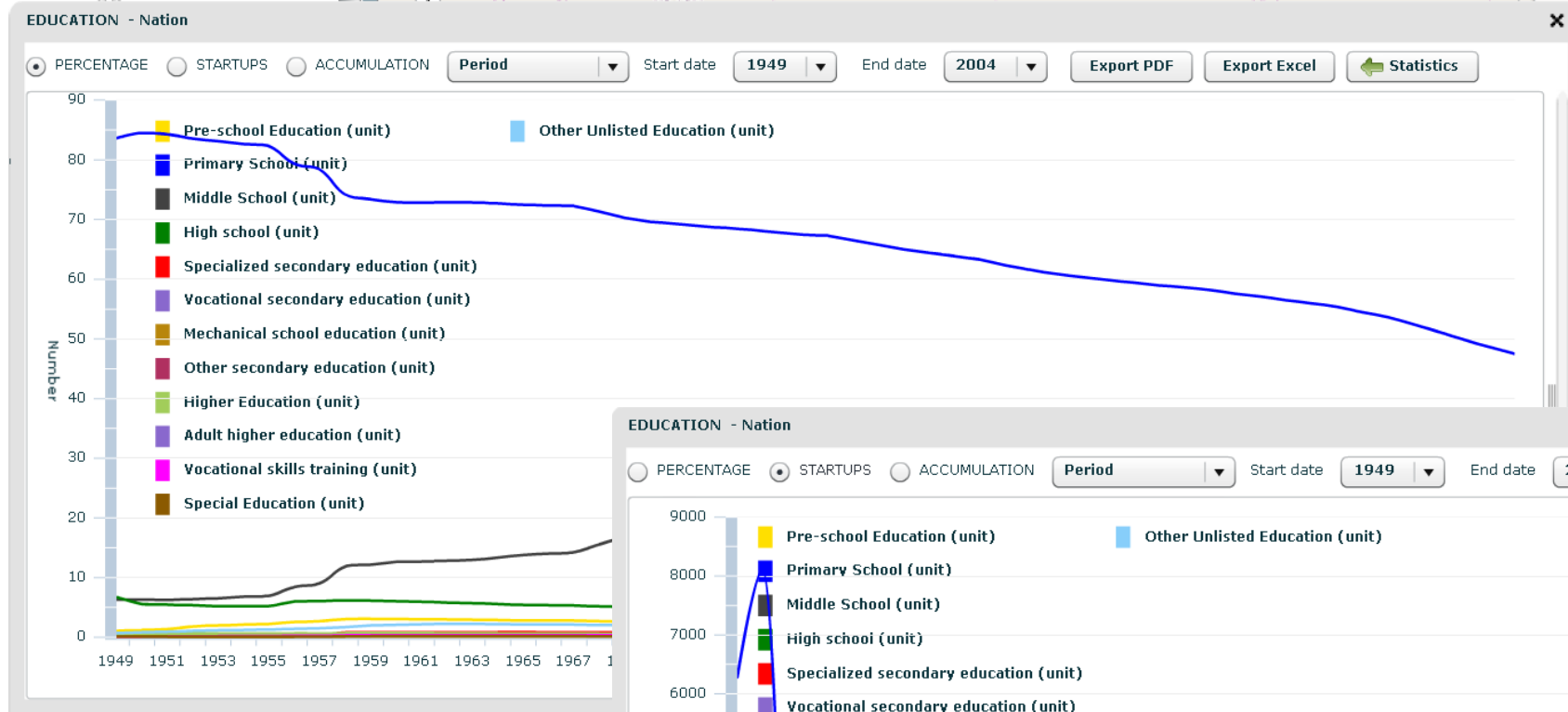
0 of 102005 selected

Attributes of Elevation

Elev	CodeTown	CodeCounty	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12
298.0000000000	330522109.0000000000	330522.0000000000	928.5	483.2	445.2	175.8	91.4	84.4	677.8					
410.0000000000	330522109.0000000000	330522.0000000000	993.5	476.4	517.1	476.4	97.8	90.3	725.3					
222.0000000000	330522109.0000000000	330522.0000000000	997.6	519.2	478.4	188.8	98.2	90.7	728.2					
241.0000000000	330522201.0000000000	330522.0000000000	185.7	94.5	91.2	34.7	17.7	17.0	132.5					
243.0000000000	330522201.0000000000	330522.0000000000	149.5	76.1	73.4	27.9	14.2	13.7	106.7					
357.0000000000	330522208.0000000000	330522.0000000000	488.8	252.6	236.1	99.0	52.1	46.9	347.9					
182.0000000000	330522201.0000000000	330522.0000000000	144.6	73.6	71.0	27.0	13.7	13.2	103.2					
440.0000000000	330522208.0000000000	330522.0000000000	567.5	293.3	274.2	115.0	60.5	54.5	404.0					
232.0000000000	330522201.0000000000	330522.0000000000	137.2	69.8	67.4	25.5	13.0	12.6	97.9					
370.0000000000	330522109.0000000000	330522.0000000000	686.0	358.1	329.9	130.2								
118.0000000000	330522201.0000000000	330522.0000000000	111.8	56.9	54.9	20.9								
345.0000000000	330522109.0000000000	330522.0000000000	764.9	398.1	368.8	144.8								
212.0000000000	330522109.0000000000	330522.0000000000	829.9	431.9	397.9	157.1								
170.0000000000	330522201.0000000000	330522.0000000000	169.3	86.1	83.2	31.6								
303.0000000000	330522109.0000000000	330522.0000000000	838.8	436.6	402.2	158.8								
66.0000000000	330522103.0000000000	330522.0000000000	361.4	235.1	237.3	93.9								
279.0000000000	330522109.0000000000	330522.0000000000	768.0	399.7	368.3	145.4								
26.0000000000	330522103.0000000000	330522.0000000000	441.1	286.9	289.6	114.6								
311.0000000000	330522201.0000000000	330522.0000000000	282.8	143.8	138.9	52.8								
301.0000000000	330522201.0000000000	330522.0000000000	220.6	112.2	108.4	41.2								
322.0000000000	330522201.0000000000	330522.0000000000	173.5	89.3	85.2	32.4								
217.0000000000	330522208.0000000000	330522.0000000000	325.1	168.0	157.1	65.9								
178.0000000000	330522201.0000000000	330522.0000000000	137.9	70.1	67.7	25.7								
217.0000000000	330522208.0000000000	330522.0000000000	381.3	197.1	184.2	77.3								
262.0000000000	330522201.0000000000	330522.0000000000	131.8	67.0	64.7	24.6								
285.0000000000	330522208.0000000000	330522.0000000000	463.9	239.8	224.1	94.0								
223.0000000000	330522201.0000000000	330522.0000000000	124.8	63.5	61.3	23.3								
216.0000000000	330522109.0000000000	330522.0000000000	569.0	296.1	272.8	107.7								
139.0000000000	330522201.0000000000	330522.0000000000	107.8	54.8	52.9	20.1								
210.0000000000	330522109.0000000000	330522.0000000000	654.2	340.5	313.7	123.8								
201.0000000000	330522201.0000000000	330522.0000000000	706.4	54.1	52.3	19.9								
157.0000000000	330522109.0000000000	330522.0000000000	716.1	372.7	343.4	135.5								
319.0000000000	330522208.0000000000	330522.0000000000	318.5	164.6	153.9	64.5								
170.0000000000	330522201.0000000000	330522.0000000000	173.8	88.4	85.4	32.4								
449.0000000000	330522109.0000000000	330522.0000000000	723.8	376.7	347.1	137.0								
289.0000000000	330522208.0000000000	330522.0000000000	279.5	144.5	135.1	56.6								
122.0000000000	330522201.0000000000	330522.0000000000	234.0	119.0	115.0	43.7								
430.0000000000	330522109.0000000000	330522.0000000000	659.8	343.4	316.4	124.9								
515.0000000000	330522208.0000000000	330522.0000000000	227.6	117.6	110.0	46.1								
41.0000000000	330522103.0000000000	330522.0000000000	473.6	308.0	310.9	123.0								
295.0000000000	330522109.0000000000	330522.0000000000	562.2	292.6	269.6	106.4								
326.0000000000	330522208.0000000000	330522.0000000000	205.7	106.3	99.4	41.7								
40.0000000000	330522103.0000000000	330522.0000000000	579.5	376.9	380.4	150.6								
307.0000000000	330522201.0000000000	330522.0000000000	198.8	101.2	97.7	37.1								
257.0000000000	330522208.0000000000	330522.0000000000	224.3	115.9	108.4	45.4								
234.0000000000	330522201.0000000000	330522.0000000000	158.9	80.9	78.1	29.7								
390.0000000000	330522208.0000000000	330522.0000000000	261.9	135.3	126.5	53.1								
240.0000000000	330522201.0000000000	330522.0000000000	131.1	66.7	64.4	24.5								
256.0000000000	330522208.0000000000	330522.0000000000	311.5	161.0	150.5	63.1								
228.0000000000	330522201.0000000000	330522.0000000000	127.5	64.8	62.6	23.8								
202.0000000000	330522109.0000000000	330522.0000000000	373.3	194.3	179.0	70.7								



Business Data with Starting Years



Unique Features of Economic Census Data by CDI

- **Electronic** data directly from the National Bureau of Statistics with official authorization
- **Language** available in Chinese and English
- **Geo-referenced** census data with GIS maps
- Available for **different levels** (province, city and county)
- Available for 2000 and 2010 **base maps**
- **Complete** data coverage for all regions

Difference between the US and China Census Data

□ Data collection

US: Sample surveys, every year

China: All business units, every five years

□ Data publications

US: Online e-publications at county level primarily

China: Paper publications at province level primarily

□ Data Classifications

US: More service sectors than manufacture

China: More manufacture than service sectors

Pros and Cons

Pros:

- ✓ Nationwide statistical agencies
- ✓ Comprehensive data coverage
- ✓ Authoritative publications

Cons:

- Most data are in paper publications only
- Most publications are in Chinese only
- No geo-reference data
- **Incomplete census publication across regions**

Access to the Census Data

❑ Order CD products:

<http://chinadatacenter.net>

❑ Online access to e-books:

<http://china-data-online.com>

❑ Online access to census maps:

<http://china-data-online.com> Online access to spatial data:

<http://chinageoexplorer.com>

The image displays two screenshots from the China Data Online website. The top screenshot shows the main interface with a search bar and a list of census yearbooks. The bottom screenshot shows a detailed view of the Xinjiang 2000 Population Census Assembly data, including a table with columns for Region, Total, Family Households, and Population.

Region	Households			Total			Population				
	Total	Family Households	Collective Household	Total	Male	Female	Sub-total	Male	Female		
Total	6251195	6086988	164207	25124282	13021654	12102628	107.59	24261648	12406398	11855250	104.55
Lanzhou Shi	919090	868254	50836	3142523	1435825	1506698	108.57	2845606	1437415	1408191	102.08
Chengdean Qu	210783	287645	23138	936888	482507	454381	106.19	811141	403580	407291	99.16
Dalhe Qu	143916	135056	8860	478457	253968	224489	113.15	426107	214255	209852	103.05
Jiu Qu	110576	103073	8203	336029	174395	161634	107.59	315310	159314	155996	102.13
Anqing Qu	50021	44344	5677	195704	105911	89793	117.95	132986	67176	65810	102.08
Honggu Qu	40201	38086	2115	140681	75860	64821	117.03	129951	66449	63502	104.64
Yangcheng Xian	123183	120600	2583	478039	244998	233041	105.13	469171	237033	231368	102.78
Qiantan Xian	39016	39185	761	141212	82815	78397	105.11	158467	80477	77990	103.19
Yuzhong Xian	102494	99995	2499	415513	215551	199962	107.8	402473	206091	196382	104.94
Jiayuguan Shi	55839	51729	1860	159541	85959	73582	116.82	149655	77298	72357	106.83
Meian Districts	53839	51729	1860	159541	85959	73582	116.82	149655	77298	72357	106.83
Jiuchang Shi	136445	131461	4984	451570	235762	215778	109.28	434277	221787	212490	104.38
Jiuchuan Qu	67650	65884	1766	204902	106725	98177	108.71	198047	101233	96814	104.56
Yongchang Xian	68795	65577	3218	246668	123067	117601	109.75	236230	120554	115676	104.22
Bayan Shi	406975	396397	10578	1179735	888032	831703	106.77	1676292	854756	821536	104.04
Bayan Qu	84394	81389	3025	274554	145506	129048	112.75	260124	133421	126703	105.3
Pingchuan Qu	50206	47822	2384	186428	96166	89262	111.22	178509	92102	86407	106.59
Jingyuan Xian	97342	94489	2853	463076	237699	225377	105.47	450490	228870	221620	103.27
Huang Xian	119487	118115	1372	568634	290495	278139	104.44	562745	286146	276599	103.45
Jingta Xian	55546	54602	944	227043	116166	110877	104.77	224424	114217	110207	103.64
Tiansha Qu	79810	72868	10922	321933	165749	156174	106.17	315328	160988	154392	104.27
Qincheng Qu	152381	149123	3258	604070	312699	291371	107.32	581034	297311	283723	104.79
Beida Qu	135024	131752	3272	542916	281809	261107	107.93	528031	271522	256509	105.85
Qinghai Xian	64604	63648	456	275027	143451	131576	105.67	274668	139626	134842	103.36
Qin'an Xian	117177	114425	2752	545273	275759	269514	103.07	538129	270856	267373	101.34
Guang Xian	119627	118302	1325	553377	283547	269830	105.08	547169	278174	268995	103.41

China Data Online: <http://china-data-online.com>

Welcome **China Data Center**, your IP is: 98.224.227.102 Today is: 2019/2/27 EST USA



China Data Online 中国数据在线

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CHINA SPATIAL DATA

- ▶ [China Geo-Explorer II](#)
- ▶ [China Geo-Explorer I](#)
- ▶ [China Map Library](#)

CHINA STATISTICS

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- ▶ [National Statistics](#)
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CENSUS DATA

- ▶ [Census Maps](#)
- ▶ [All Census Data](#)
- ▶ [Economic Census 2004](#)
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- ▶ [Census 1982 \(10%\)](#)
- ▶ [Census 1990](#)
- ▶ [Census 1995 \(1%\)](#)
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- ▶ [Census Data Search](#)

FREE CHINA MAPS

[2000 Population Census](#)

[Pop & Env \(1990-1999\)](#)

[Pop & Env \(2000\)](#)

[Atlas of Industrial Census](#)

Producer Prices for the Industrial Sector for January 2019

Ex-factory Price Index of Industrial Products and Purchase Price Index of Materials 13 Months (Year-on-year)



Latest China Statistical News

[Producer Prices for the Industrial Sector for January 2019 \(2/15/2019\)](#)

[Consumer Prices for January 2019 \(2/15/2019\)](#)

[The Gross Imports and Exports increased in the First Month of 2019 \(2/14/2019\)](#)

[Total Retail Sales of Consumer Goods up by 9.0 percent in the first twelve month... \(1/24/2019\)](#)

China Data Online

❑ CHINA STATISTICS

- Monthly Statistics
- National Statistics
- Provincial Statistics
- City Statistics
- County Statistics
- Monthly Industrial Data
- Yearly Industrial Data
- Statistics on Map
- Yearbook Database
- Statistical Datasheets
- Statistical Charts

❑ CENSUS DATA

- Census Databooks
- Census Data Search (2000)
- Census Maps
 - Census 2010
 - Census 2000
 - Economic Census 2008
 - Economic Census 2004
 - Basic Unit Census 2001
 - Industry Census 1995

❑ SPATIAL DATA

- China Geo-Explorer I
- China Geo-Explorer II
- US Geo-Explorer
- China Map Library
- US Map Library
- Free Mapping

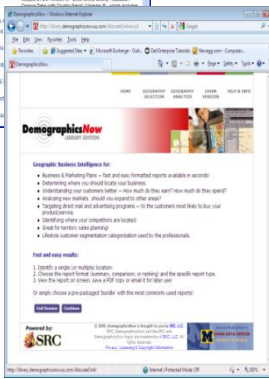
China Geo-Explorer:

An Integration of Census Data with GIS Maps with > 6,500 variables

Statistics



Census



GIS



China Geo-Explorer

The screenshot shows the 'China Geo-Explorer II' web application interface. It features a map of China with various data layers overlaid, including population density, economic indicators, and administrative boundaries. The interface includes a search bar, a legend, and a list of data layers.

For those who are interested in China studies, China Geo-Explorer offers a web based spatial data service that allows easy access to a rich collection of unique, authoritative, and comprehensive information from government statistics, population and economic Census, and many other data sources in a spatially integrated system with many powerful functions for exploratory spatial data analysis. Unlike many other GIS systems, China Geo-Explorer is compatible with most web browsers and can be learned by everyone without GIS skills. With this spatial intelligence service, you'll be able to make rapid, accurate spatial decisions with greater confidence for regional planning, business investment, population, housing, environmental assessment, public health and many other spatial applications.

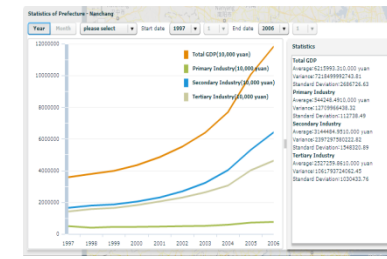
The features of this online service include:

- Efficient data integration for spatial and non-spatial data (custom radii, administrative units, spatial boundaries)
- Quick and accurate location analysis and spatial assessment
- Identify spatial patterns and trends
- Generate time-saving, easy-to-use, and customized reports
- Dynamic charts, tables and maps
- Export to PDF, Excel, Word, or GIS Shape Files

The primary GIS data sources include:

- 2000 China Province Population Census Data with GIS Maps
- 2000 China City Population Census Data with GIS Maps
- 2000 China County Population Census Data with GIS Maps
- 2000 China Township Population Census Data with GIS Maps
- 2010 China Province Population Census Data with GIS Maps
- 2010 China City Population Census Data with GIS Maps
- 2010 China County Population Census Data with GIS Maps
- 2010 China Township Population Census Data with GIS Maps
- China 2000-2010 Province Population Census Data with GIS Maps
- China 2000-2010 City Population Census Data with GIS Maps
- China 2000-2010 County Population Census Data with GIS Maps
- China 2000-2010 Township Population Census Data with GIS Maps
- China 2000-2010 Basic Unit Census Data with GIS Maps
- China 2004 Economic Census Data with GIS Maps

Charts

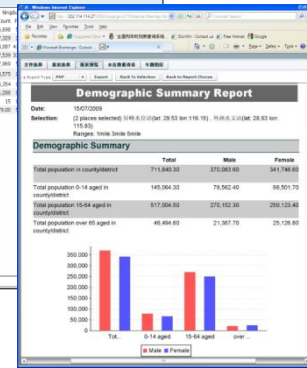


Tables

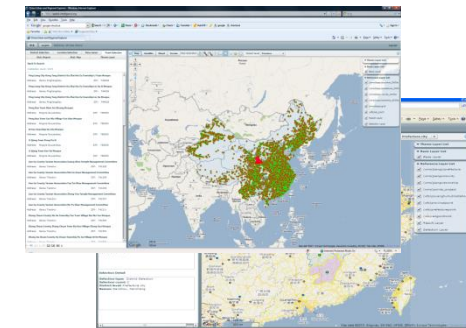
The screenshot shows a 'Reports' page with a table titled 'Education and Literacy Comparison Report'. The table compares various indicators across different regions, including literacy rates, enrollment, and educational attainment.

Indicator	Value
Total	~1,200,000
Primary	~300,000
Tertiary	~200,000

Reports



Maps



China Data Coverage

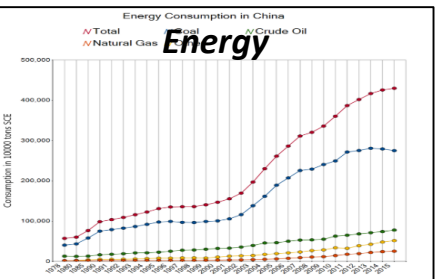
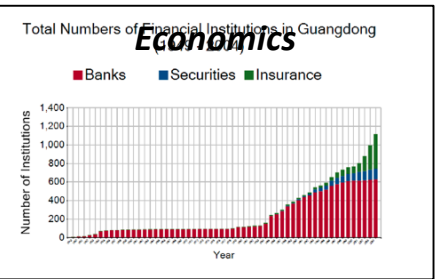
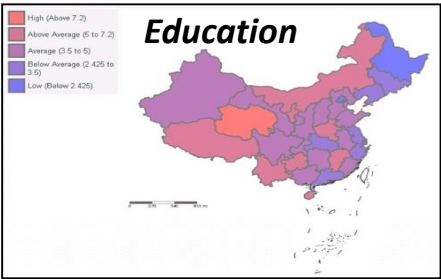


- **Government Statistics**
 - Provincial Statistics (1949 -)
 - City Statistics (1996 -)
 - County Statistics (1997 -)
- **Population Census**
 - Census 1953
 - Census 1964
 - Census 1982
 - Census 1990
 - Census 2000/2010 (province, city, county, township, GRID)
- **Economic Census**
 - Industrial Census 1995 (province, city, county, ZIP)
 - Basic Unit Census 2001 (province, city, county, ZIP)
 - Economic Census 2004/2008 (province, city, county, ZIP)
- **Establishments** (more than 7 millions companies and organizations)
- **Geography and Environment**
 - Land Use data
 - Night-Time data
- **Base Maps**
 - 2000
 - 2010
 - 2000-2010

New Generation of Statistics in Digital Age

- Diversified data sources
- Non-gov't data sources
- Big data sources
- Publically available data
- Real-time data
- More detailed data
- **More chaos in data (=> data puzzle)**

Replicable, Reproducible and Expandable Data Analysis



The screenshot displays the KNIME Analytics Platform interface. The main workspace shows a complex workflow for processing 'CES annual report test' data. The workflow starts with two 'Excel Reader (XLS)' nodes (Node 26 and Node 27) which feed into 'Number To String' and 'String To Number' nodes. These are followed by 'Joiner' nodes (Node 28 and Node 29) that merge the data streams. The workflow then branches into multiple paths, each involving 'Row Filter' nodes (Left, Right, Full Join, Exclude Left, Exclude Right) and 'Column Filter' nodes (Member_Unmatch, Card_Unmatch). The filtered data is then processed by 'Excel Writer (XLS)' nodes (Node 30-32, Node 33-35, Node 36-38) and 'Number To String' nodes (Node 73-74, Node 65-66). The interface also shows a 'Node Repository' on the left, a 'Workflow Coach' with node recommendations, and a 'Description' panel on the right for the selected workflow. At the bottom, there are three smaller preview windows: 'Outline' showing a hierarchical view of the workflow, 'NSF Directorate' showing a bar chart, and 'Max-p Clustering Map' showing a network graph.

Monthly Training Webinars on Research Data

Registration: <https://www.eventbrite.com/e/87068378865/>

- ❑ 9/24/2020, Understanding Gov't Statistics
- ❑ 10/22/2020, Understanding Population Census and Demographic Changes
- ❑ 11/19/2020, Understanding Economic Census and Industrial Changes
- ❑ 12/17/2020, Understanding Administrative Maps and Regional Geography
- ❑ 1/21/2021, Spatial Study of Innovation with Patent Data
- ❑ 2/18/2021, Spatial Study of Health with Statistics, Census and GIS Data
- ❑ 3/18/2021, Spatial Study of Environment with Statistics, Census and GIS Data
- ❑ 4/22/2021, Understanding Urban Development
- ❑ 5/20/2021, Understanding Rural Development
- ❑ 6/17/2021, Understanding Mobility in Time and Space
- ❑ 7/15/2021, Understanding Culture in Time and Space
- ❑ 8/12/2021, New Development and Directions: Data, Tools and Applications

Training Webinars on Workflow-based Data Analysis

- Co-sponsored by RMDS Lab and Future Data Lab

[Registration: https://www.eventbrite.com/e/121260468325](https://www.eventbrite.com/e/121260468325)

- ❑ 10/1/2020 Statistical Data Analysis With Workflows
- ❑ 11/6/2020 Analysis of Population Census Data & Demographic Change
- ❑ 12/3/2020 Analysis of Economic Census Data & Industrial Change
- ❑ 1/7/2021 The Integration of Data and Maps for Spatial Analysis
- ❑ 1/28/2021 Spatial Analysis of Patent Data
- ❑ 2/25/2021 Spatial Analysis of Health with Statistics, Census and GIS Data
- ❑ 3/25/2021 Spatial Analysis of Environment with Statistics, Census and GIS Data
- ❑ 4/29/2021 Spatiotemporal Analysis of Urban Development
- ❑ 5/27/2021 Spatiotemporal Analysis of Rural Development
- ❑ 6/24/2021 Human Mobility in Space and Time
- ❑ 7/22/2021 Spatiotemporal Analysis of Culture and Society
- ❑ 8/19/2021 Future Data Analysis: New Development and Directions

Web Sites



China Data Online

<http://china-data-online.com>

China Data Center

<http://chinadatacenter.net>

office@chinadatacenter.net